LBT-N500/N550/N550K/N550P

SERVICE MANUAL

AEP Model
LBT-N500/N550
UK Model
Australian Model
Mexican Model
Argentine Model
PX Model
LBT-N550
E Model

LBT-N500/N550/N550K/N550P are composed at following models.
 As for the service manual, it is issued for each component model, then please refert to it.

COMPONENT MODEL NAME FOR THESE SYSTEM

	LBT-N500				LBT-N550				LBT-N550K			LBT-N550P					
	AEP	G	IT	EE	CIS	AEP	UK	G	AUS	AR	MX	РХ	EΑ	MY	SP	Е	Е
Tuner, Preamplifier			<u></u>	STR	-N500					l			STI	R-N5	00		· · · · · · · · · · · · · · · · · · ·
Power Amplifier		TAN-N500															
Casstte Deck		TC-N500															
Compact Disc PLayer	C	CDP-N500				CDP-N550C											
Speaker System							SS-LB500										
Turntable	*PS-LX56P					PS-LX	56P										PS-LX56P

Note: Abbreviation

AR : Argentine Model
AUS : Australian Model
EA : Saudi Arabia Model
EE : East European Model
G : German Model

MX : Mexican Model
MY : Malaysia Model
SP : Singapore Model

*: LBT-N500

There are two type of LBT-N500 system. One is consisting PS-LX56P and the other one dose not consist PS-LX56P.

COMPACT HI-FI STEREO SYSTEM
SONY.

PARTS LIST

NOTE:

Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• Abbreviation

Abbreviation
AR : Argentine Model
AUS : Australian Model
EA : Saudi Arabia Model
EE : East European Model G : German Model IT : Italian Model MX : Mexican Model MY : Malaysia Model

SP: Singapore Model

	Part No.	<u>Description</u>
	1-501-374-11 1-501-594-31 1-501-659-41	COMMANDER, STANDARD (RM-S500L) ANTENNA, LOOP ANTENNA (FM) (AEP, UK, IT, EE, CIS) ANTENNA (FM) (E, EA, SP, MY, MX, AR, AUS, PX) CORD (WITH CONNECTOR)
		CORD (WITH CONNECTOR) MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (N500:AEP)
	3-798-377-51	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (N500:AEP, IT)
	3-798-377-81	MANUAL, INSTRUCTION (GERMAN) (N500:G) MANUAL, INSTRUCTION (ENGLISH, GERMAN, POLISH, RUSSIAN) (N500:EE, CIS)
		MANUAL, INSTRUCTION (ENGLISH) (N550:UK) MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (N550:AEP)
	3-798-423-51	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (N550:AEP, G)
		MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (E, EA, MY, SP, MX, AR, AUS, PX)
	4-937-945-11	PLATE (TRANSPORT), LOCK (CDP-N550C)
*	4-947-532-01 4-947-533-01	COVER (MLY), BATTERY (for RM-S500L) SNOW BOX (L) (PS-LX56P) SNOW BOX (R) (PS-LX56P)
		ADAPTOR, 45 (PS-LX56P) INDIVIDUAL CARTON (N500:AEP) (WITH TURNTABLE)
*	4-973-084-01	INDIVIDUAL CARTON (N500:AEP, G, IT)

(WITHOUT TURNTABLE)

Part No.	Description
	INDIVIDUAL CARTON (N500:EE, CIS) CUSHION (UPPER) (CDP-N500/STR-N500:UK, EE, CIS, E, MX, AR, AUS, PX/STR-N500K)
* 4-973-639-01	INDIVIDUAL CARTON (STR-N500:UK, CIS, E, PX/STR-N500K)
	CUSHION (LOWER) (CDP-N500/STR-N500:UK, EE, CIS, E, MX, AR, AUS, PX/STR-N500K)
	INDIVIDUAL CARTON (STR-N500:AEP, G, IT)
* 4-973-868-01	CUSHION (STR-N500:AEP, G, IT)
* 4-973-916-01	CUSHION (FRONT) (CDP-N550C)
* 4-973-917-01	CUSHION (REAR) (CDP-N550C)
* 4-974-070-01	INDIVIDUAL CARTON (SS-LB500:AUS)
* 4-974-071-01	CUSHION (SS-LB500)
* 4-974-187-01	INDIVIDUAL CARTON (N550:AEP, UK)
	(WITH TURNTABLE)
* 4-974-188-01	INDIVIDUAL CARTON (N550: AEP, G)
	(WITHOUT TURNTABLE)
* 4-974-189-01	INDIVIDUAL CARTON (N550P)
* 4-974-191-01	INDIVIDUAL CARTON (N550:AUS, PX)
* 4-974-192-01	INDIVIDUAL CARTON (N550:AR)
* 4-974-193-01	INDIVIDUAL CARTON (N550:MX)
* 4-974-194-01	INDIVIDUAL CARTON (N550K:EA)
* 4-974-195-01	INDIVIDUAL CARTON (N550K:E, MY, SP)
	INDIVIDUAL CARTON (SS-LB500:E)

* 4-975-729-01 INDIVIDUAL CARTON (SS-LB500:MX) A-4674-087-A TURNTABLE ASSY (PS-LX56P)

STR-N500/N600

SERVICE MANUAL

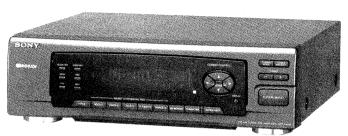


Photo: STR-N600

AEP Model
UK Model
E Model
Australian Model
STR-N500/N600
PX Model
STR-N500

STR-N500/N600 are tuner and amplifier section in LBT-N500, LBT-N550, LBT-N550P, LBT-N600AV and LBT-N650AV.

SPECIFICATIONS

System

FM stereo

FM/AM superheterodyne tuner

FM tuner section

Tuning range

87.5 - 108.0 MHz

Aerial

75 ohms unbalanced

Intermediate frequency

10.7 MHz

AM tuner section

Tuning range

Latin American models:

AM: 530-1,710 kHz

German and Italian models:

AM: 531-1,602 kHz

Other European models:

MW: 531-1,602 kHz

LW: 153-279 kHz

Other models:

AM: 531-1,602 kHz

Aerial AM loop aerial

External aerial terminals

Intermediate frequency 450 kHz

Input Jack type
AUX Phono
PHONO (MM) Phono

inputSensitivityImpedanceAUX245 mV47 kilohmsPHONO (MM)3.3 mV47 kilohms

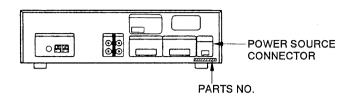
Weight Approx. 2.6 kg Dimensions

Approx. $355 \times 105 \times 315 \text{ mm}$ (w/h/d, including projections)

FM-AM TUNER/PRE-AMPLIFIER SONY.

MODEL IDENTIFICATION

- BACK PANEL -



	PARTS NO.	NOTE
N500: UK Model	4-969-784-0□	With power source connector for PS-LX56P
N500: AEP, German, Italian Model	4-969-784-1	
N500: East European, CIS Model	4-969-784-2	
N500: E Model	4-970-163-0	With power source connector for PS-LX56P
N500: Mexican, Australian, PX Model	4-970-163-1	
N500: Argentine Model	4-970-163-4	
N500: AEP 2 Model	4-973-530-0	AEP model with power source connector for PS-LX56P
N600: AEP, UK, German, Italian Model	4-969-784-4	
N600: East European, CIS Model	4-969-784-5	
N600: E Model	4-970-163-5	
N600: Australian Model	4-970-163-6	

TABLE OF CONTENTS

Sectio	<u>n Title</u>	<u>Page</u>
	fications	·· 1 ·· 2
1.	GENERAL	
	Index to Parts and Controls · · · · · · · · · · · · · · · · · · ·	3
2.	ELECTRICAL ADJUSTMENTS	4
3.	DIAGRAMS	
3-1.	Schematic Diagram - Tuner Section - · · · ·	5
3-2.	Schematic Diagram - Main Section - · · · · ·	·· 10
3-3.	Printed Wiring Boards	
	- Tuner, Main Section - · · · · · · · · · · · · · · · · · ·	
3-4.	Printed Wiring Board - Panel Section - · · ·	
3-5.	Schematic Diagram - Panel Section - · · · ·	
3-6.	IC Pin Function Description · · · · · · · · · · · · · · · · · · ·	·· 21
4.	EXPLODED VIEW ·····	. 23
5.	ELECTRICAL PARTS LIST	25

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

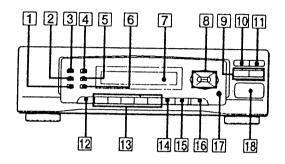
SECTION 1 GENERAL

This section is extracted from instruction manual.

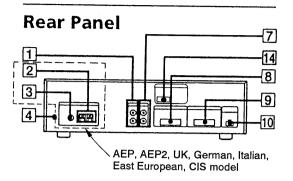
1-1. INDEX TO PARTS AND CONTROLS

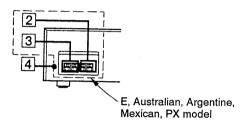
Front Panel

Tuner / Preamplifier (STR-N500/N600)



- 1 PTY button (*)
- 2 DAILY button
- 3 CLOCK SET button
- 4 TIMER SET button
- 5 REC button
- 6 EON button (*)
- 7 Display window
- 8 CURSOR CONTROL keys
- 9 TUNING (+/-) buttons
- 10 TUNING MODE button
- 11 TUNING MEMORY button
- 12 P.FILE button
- 13 SELECT 5/PERSONAL FILE buttons
- 14 EQ MEMORY button
- 15 CHARACTER button
- 16 ENTER/NEXT button
- [17] DISPLAY button
- 18 TUNER/BAND button
- *: AEP, UK, German, Italian, East European ONLY.





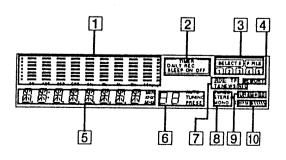
- 1 PHONO IN jacks
- 2 AM terminal
- 3 FM 75Ω terminal
- 4 h ground terminal
- 7 AUX IN jacks
- 8 SYSTEM CONTROL 1 terminals
- 9 SYSTEM CONTROL 2 terminals
- 10 POWER SOURCE terminal (only for the model supplied with a turntable) (N500: AEP2, UK, E ONLY)
- [14] SYSTEM CONTROL 3 terminals (N600 ONLY)

*AEP: AEP model without power source for PS-LX56P.

AEP2: AEP model with power source for PS-LX56P.

Display Window

Tuner / Preamplifier (STR-N500/N600)



- 1 Spectrum analyser
- 2 TIMER DAILY/REC/SLEEP/ON/OFF indications
- 3 SELECT 5/P.FILE indications
- 4 MEMORY indication
- 5 Frequency/Station name/Function indications
- 6 AUTO/TUNING/PRESET indications
- 7 RDS indications
- 8 Tuner indications
- 9 SURROUND indication
- 10 DBFB indication

SECTION 2 ELECTRICAL ADJUSTMENTS

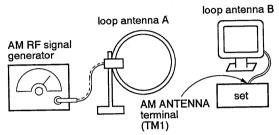
Note: As a front-end (FE1) is difficult to repair if faulty, replace it with

The FM TUNED level must be adjusted after the AM TUNED level adjustment has completed.

0 dB=1 μV

AM Section Adjustment

Setting:



Carrier frequency: 999 kHz (except E model) : 1,000 kHz (E model) Modulation: 400 Hz, 30% modulation

AM tuned Level Adjustment

Band: AM

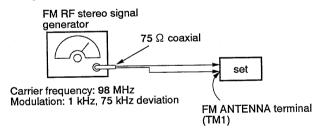
Procedure:

- 1. Set loop antenna A so that the loop antenna B input level becomes 316 μ V (50 dB μ).
- 2. Tune the set to 999 kHz (except E model) or 1,000 kHz (E model).
- 3. Adjust RV1 so that the TUNED indicator goes on.

Adjustment Location: main board

FM Section Adjustment

Setting:



FM Tuned Level Adjustment

Band: FM

Procedure:

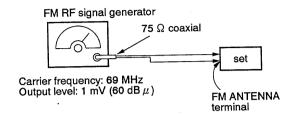
- 1. Supply a 17.8 μ V (25 dB μ) 98 MHz signal from the ANTENNA terminal.
- 2. Tune the set to 98 MHz.
- 3. Adjust RV2 so that the TUNED indicator goes on.

Adjustment Location: main board

FM POLAR Adjustment

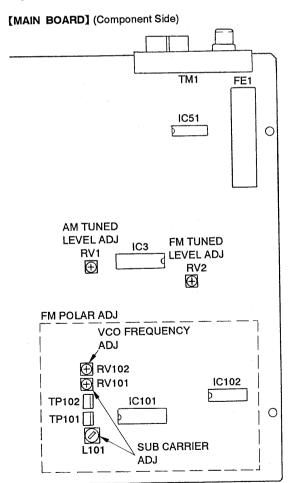
Setting:

Band: FM

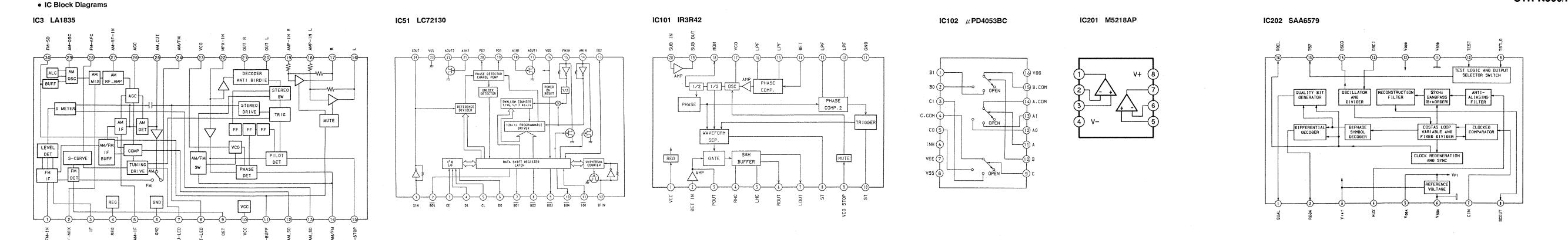


- Connect the frequency counter to the TP102 and adjust the RV102 for a frequency of 31.25 kHz ± 50 Hz.
- 2. Connect the VTVM to the TP101, receive the signal of 69 MHz \pm 1 kHz (1 kHz dev.) and adjust the reading of the VTVM to 0 dB.
- Set the modulation frequency of the FM RF signal generator to 31.25 kHz (10 kHz dev.) and adjust the L101 so that the reading of the VTVM is 0 dB.
- Adjust the RV101 so that the reading of the VTVM to 14 dB.
- 5. Check that the separation between Pins (4) and (4) of the IC102 is more than 18 dB.

Adjustment Location: main board

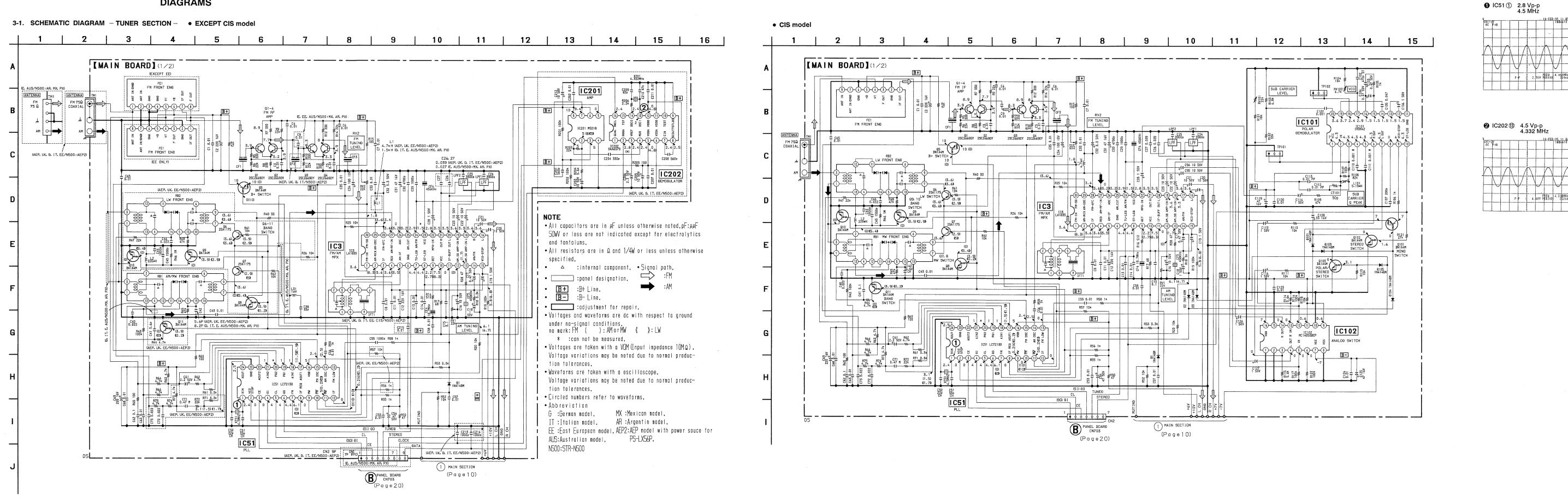


-8-



SECTION 3
DIAGRAMS

-5-

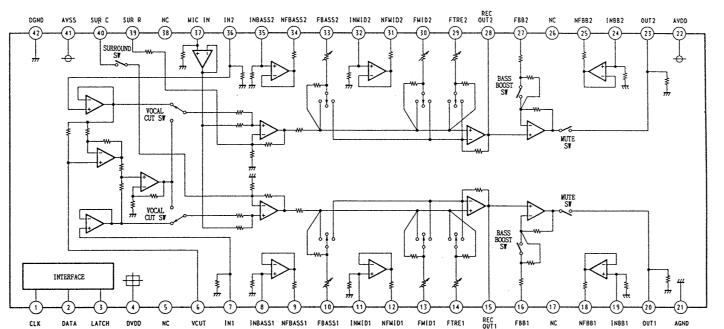


-7-

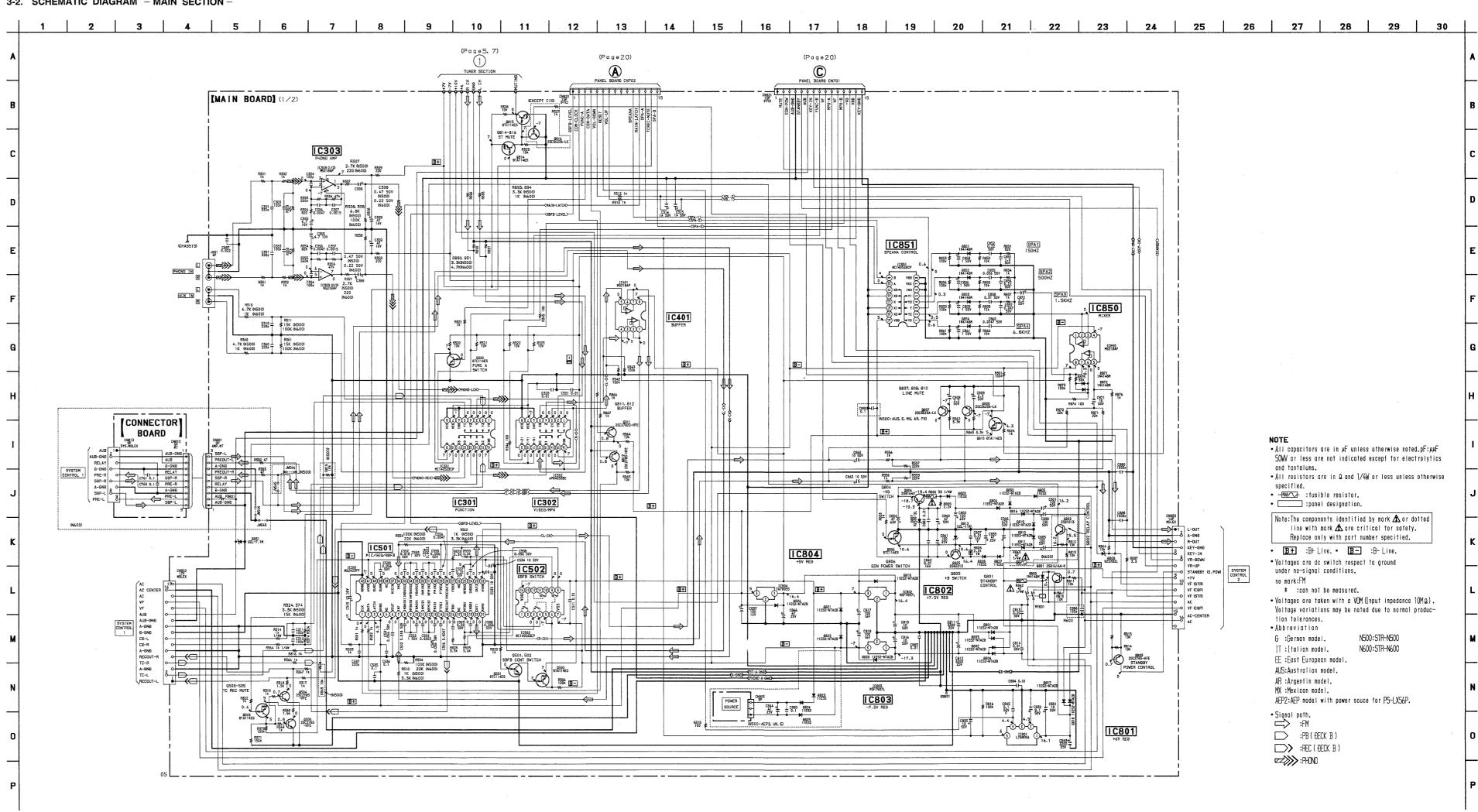
-6-

• IC Block Diagram

IC501 M62423FP

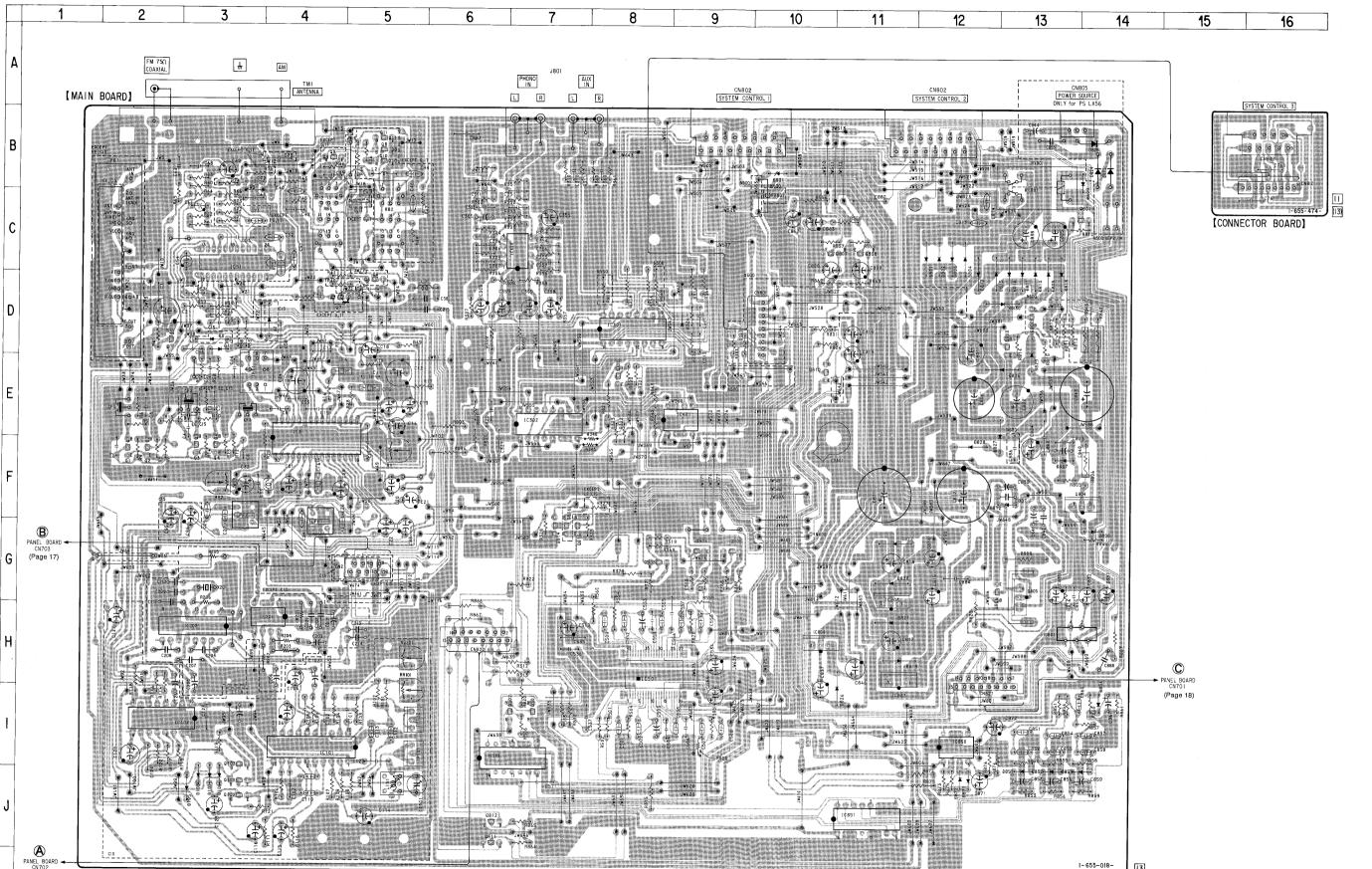


3-2. SCHEMATIC DIAGRAM - MAIN SECTION -

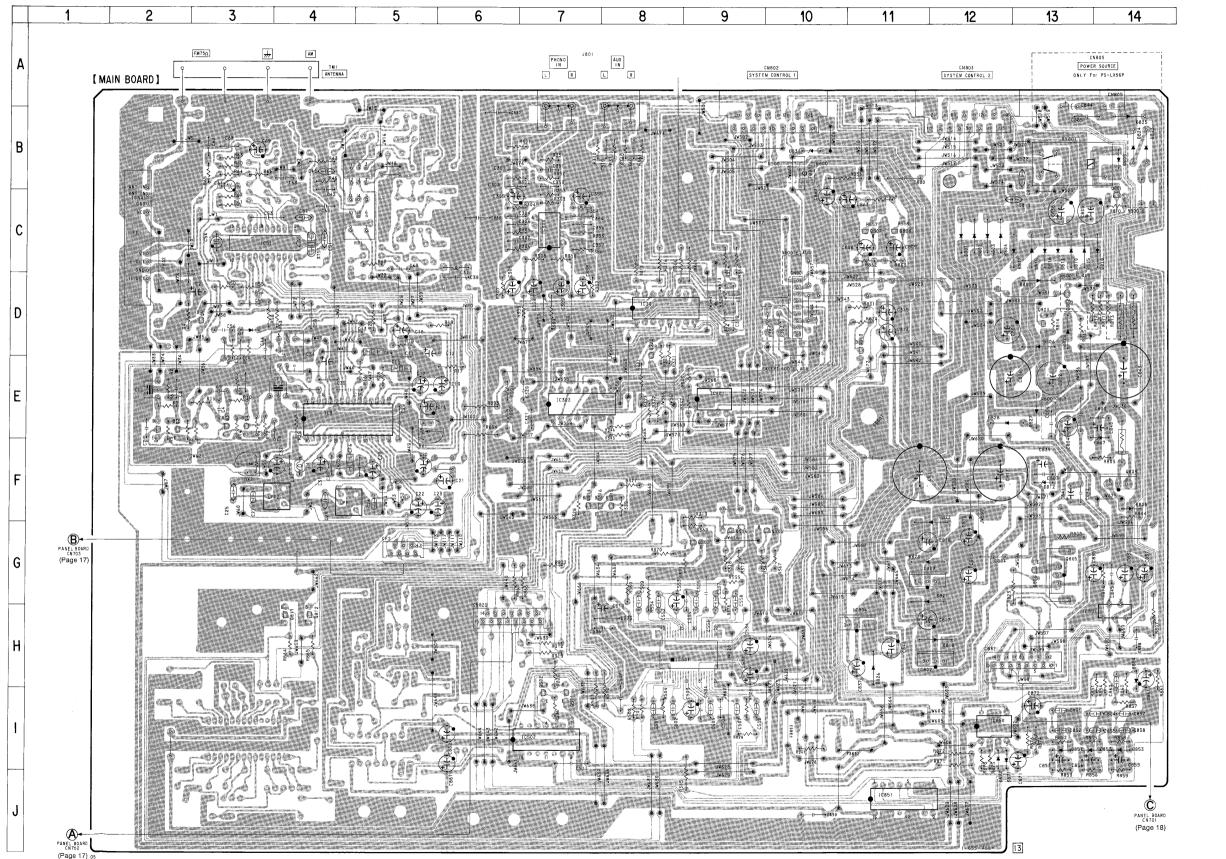


3-3. PRINTED WIRING BOARDS - TUNER, MAIN SECTION -

• AEP, AEP2, UK, German, Italian, East European, CIS model (TYPE A)



• E, Australian, Mexican, PX, Argentine model (TYPE B)



• Semiconductor Location

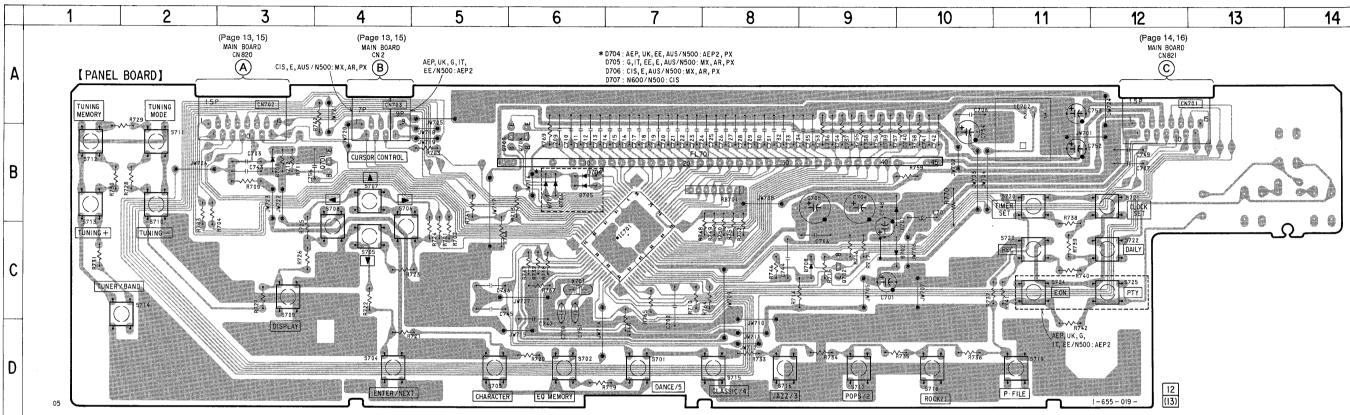
- Ochhico	nauctor Locat		
Ref. No.	Location	Ref. No.	Location
D1 D2 D3 D101 D103 D104 D105 D801 D802 D803 D804 D805	D-3 D-4(TYPE A) D-3(TYPE A) I-3(TYPE A) I-3(TYPE A) I-3(TYPE A) I-3(TYPE A) C-12 C-12 C-12 C-12 C-13	IC302 IC303 IC401 IC501 IC502 IC801 IC802 IC803 IC804 IC804 IC850 IC851	E-7 C-7 E-9 H-8 I-6 H-14 H-11 G-11 H-10 (TYPE A) H-11 (TYPE B) I-12 J-11
D806 D807 D808 D809 D810 D811 D812 D815 D815 D816 D817 D818 D818 D818 D818 D820 D821 D822 D822 D822 D822 D822 D822 D822	D-13 E-13 F-14 B-14 C-13 F-13 F-13 F-13 C-12(TYPE A) C-13(TYPE B) C-13(TYPE B) C-13(TYPE B) C-13(TYPE B) C-14(TYPE B) H-11 G-11 F-11(TYPE A) F-12(TYPE B) B-14 B-14 B-14 H-11 E-13 D-13 D-13 B-10 I-13 I-13 I-14 H-14 I-12	01 02 03 04 05 05 06 07 08 09 010 011 0101 0102 0103 0320 0501 0502 0503 0504 0505 0801 0802 0804 0805 0807 0807	E-2 E-3 (TYPE A) D-3 (TYPE A) D-2 (TYPE A) D-3 (TYPE B) C-5 (TYPE A) B-5 (TYPE A) I-3 (TYPE A) I-3 (TYPE A) I-3 (TYPE A) I-3 (TYPE A) D-8 H-7 H-7 G-8 G-9 C-14 D-13 D-13 F-14 G-13 G-13 G-13 C-10 (TYPE B) C-11 D-10
IC3 IC51 IC101 IC102 IC201 IC202 IC301	E-4 C-3 I-4(TYPE A) I-2 G-3(TYPE A) G-2 D-8	0811 0811 0812 0812 0812 0814 0815 0816	J-6(TYPE A) H-4(TYPE B) J-6(TYPE A) H-4(TYPE B) F-7 F-7(TYPE A) F-8(TYPE B) F-7

o : parts extracted from the component side.

- parts mounted on the conductor side.
- Pattern from the side which enables seeing.

 - AUS : Australian
 - EE : East European
- MX : Mexican
- AR : Argentine
- AEP2: AEP model with power source for PS-LX56P. N500: STR-N500 N600: STR-N600

3-4. PRINTED WIRING BOARD - PANEL SECTION -



Semiconductor Location

Ref. No.	Location
D701 D702 D703 D704 D705 D706 D707 D708	B-10 B-10 B-3 B-6 B-6 B-6 C-9
1C701	C-7
1C702	A-11
0701	B-4
0702	C-9
0703	B-6
0704	B-6

parts extracted from the component side.

 parts mounted on the conductor side. Pattern from the side which enables seeing.

 Abbreviation G : German

: Italian

AUS : Australian EE : East European

MX : Mexican

AR : Argentine

AEP2: AEP model with power source for PS-LX56P.

N500: STR-N500 N600: STR-N600

3-5. SCHEMATIC DIAGRAM - PANEL SECTION -FRUORESCENT P22 (\$)_A22 P21 (S) A21 P20 (m) A20 L P19 (A194 P18 👸 A18 P17 (g) A17 P15 (E) A15 P13 (m) A13 P12 🖱 A12 🗖 PII ALL P10 (E) A10 P9 (E) A9 P1 (2) A14

4 | 5 | 6 | 7 | 8 | 9 | 13 | 14 | 15 10 | 11 | [PANEL BOARD] FUNCB RB701 S.POW 27.7 AUB-G £704: AEP, UK, EE, AUS/N500: AEP2, PX L701 € 8705:G, IT, EE, E, AUS/N500:MX, AR, PX 8706:CIS, E, AUS/N500:MX, AR, PX -28.8 R748 100k AN12 R748 100k 9.5 W A13 R749 100k CN702 15P 4 R750 1001 ANIA (S) W A15 R751 100k
N15 W A16 R752 100k
14 W A17 R753 100k B+ Đ702 1N4148M 117 W A18 R754 100k MAIN-LATCH Ð706 1N4148M ◆ I◀ IC701 DISPLAY CONTROL KEYCON-LATCH A21 R757 100 2 A 2 2 R758 100k R711 22k C703 0.022 士 C701 个 47 10V IC701 #PÐ78044AGF-068 R759 100k 51 R712 \$ ★ 10703 1 C743 50 C706 FUNCA Q703, 704 GR SWITCH (a) S.ĐATA S.ĐATA-OUT PLL-CLK PLL-LATCH 39 PELEATOR

16 M R761 1k S.ĐATA-IN

36 M R762 2.2k TUNEÐ

31 M R763 1k STEREO SBX1810-59 IC702 (C1S, E. AUS/N500:MX, AR, PX)

9P

(AEP, UK, G. IT, EE/N500:AEP2) (Page5, 7) R770 ₹ 220k R739 R738 R737 R736 680 470 330 R735 R734 R729 R728 R727 R726 R725 R724 R723 4.7k 3.3k 2.2k 1.5k 1k 680 470 R742 R741 R740 3.3k 2.2k 1.5k R731 R730 22k 10k PTY EON REC DAILY CLOCK TIMER P. ROCK /1 POPS JAZZ /3 CI TUNING TU Abbreviation • All capacitors are in μF unless otherwise noted.pF: $\mu \mu F$ • Voltages are dc with respect to ground G:German model, N500:STR-N500 IT : Italian model. NAOO:STR-NAOO 50WV or less are not indicated except for electrolytics under no-signal conditions. EE :East European model. and tantalums. • All resistors are in Ω and 1/4W or less unless otherwise • Voltages are taken with a VOM (Input impedance 10M Ω). AUS: Australian model. MX:Mexican model specified. Voltage variations may be noted due to normal produc-AR: Argentin model. • _____:panel designation. tion tolerances. AEP2:AEP model with power source for PS-LX56P -20--19-

3-6. IC PIN FUNCTION DESCRIPTION DISPLAY BOARD IC701 $\,\mu$ PD78044AGF-068-3B9 (DISPLAY CONTROL)

Pin No.	Pin Name	I/O	Function					
1-5	GR7-GR3	0	El guid signal autaut					
6, 7	GR1, 2	0	FL grid signal output. Power supply (+R)					
8	VDD	-	Power supply. (+B) Division select input.					
9	DIVISION	I	Division select input.					
10	VOL 1	0	V-l					
11	VOL 2	0	Volume encoder signal output.					
12	FUNCA	0	Input selector control signal output.					
13	DBFB	0	DBFB switching signal output.					
14	CLK-COM	0	Serial clock output. (LC72130, M62423)					
15	DATA-COM	0	erial data output. (LC72130, M62423)					
16	S. DATA	I	Serial data input. (LC72130)					
17	RESET	I	Reset signal input.					
18	K. PONA	0	Not used.					
19	K. PONB	0	Not used.					
20	AVSS	_	Power supply. (GND)					
21	MAIN-LATCH	0	Serial latch output. (M62423)					
22	TCREC-MUTE	0	Mute signal for TC REC.					
23	SA-B	0	News					
24	SA-A	0	Not used.					
25	SPEANA	I	Control signal input for spectram analizer.					
26, 27	KEY-1, 2	I	Key matrix input.					
28	KEY-PA	I	Key matrix input.					
29	AVDD	_	Power supply. (GND)					
30	AVREF	· —	A/D converter, Reference terminal.					
31	STEREO	I	Stereo detection signal from tuner.					
32	XT2	_	Not used.					
33	VSS	_	Power supply. (GND)					
34	X1		V'tol (4 10 MUz)					
35	X2	_	X'tal (4.19 MHz)					
36	TUNED	I	Tuned detection signal from tuner.					
37	EON	0	Tuner block power control output.					
38	KEYCON-LATCH	0	Latch signal for M65840.					
39	PLL-LATCH	0	Latch signal for LC72130.					
40	S. POW	0	System power on signal output.					

Pin No.	Pin Name	I/O	Function
41	MUTE	0	Mute signal for AMP.
42	RDS-DATA	I	RDS data input. (SAA6579T)
43	AUB-OUT	0	AUBUS output.
44	AC CUT	I	Power detect input terminal.
45	SIRCS	I	SIRCS signal input.
46	RDS-CLK	I	RDS clock input. (SAA6579T)
47	AUB-IN	I	AUBUS input.
48	IC	_	(Connect to GND.)
49	FUNCB	0	Input selector control signal output.
50, 51	MPXA/B	0	Control signal output for MPX.
52	VDD		Power supply. (+B)
53-70	AN23-6	0	FL segment signal output.
71	VLOAD	_	Driving power for FL display panel.
72-76	AN5-1	0	FL segment signal output.
77 - 80	GR11-8	0	FL grid signal output.

SECTION 4 EXPLODED VIEW

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example:
 KNOB, BALANCE (WHITE) . . . (RED)
 A

Parts Color Cabinet's Color

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

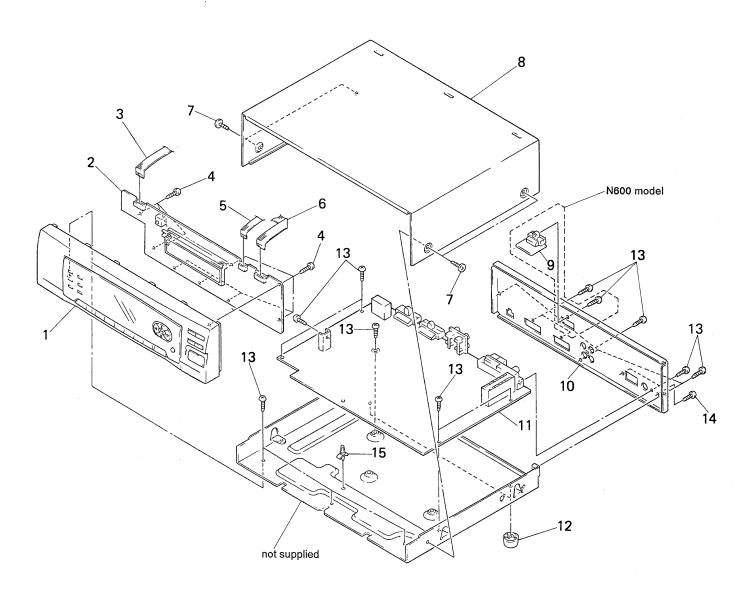
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Abbreviations

IT:Italian MX:Mexican G:German AUS:Australian

EE:East European an AR:Argentin

AEP:AEP model without power souce for PS-LX56P. AEP2:AEP model with power souce for PS-LX56P.



Ref. No.	Part No.	Description	Remark
1	X-4945-599-1	PANEL ASSY, FRONT	
		(N500: AEP, AEP2	UK, G, IT, EE)
1	X-4945-600-1	PANEL ASSY, FRONT (N500:E, MX	AR)
1	X-4945-602-1	PANEL ASSY, FRONT (N600: AEP,	UK, G, IT, EE)
1	X-4945-620-1	PANEL ASSY, FRONT (N500:CIS,	AUS, PX)
1	X-4945-965-1	PANEL ASSY, FRONT (N600:CIS,	AUS)
1	X-4946-159-1	PANEL ASSY, FRONT (N600:E)	
* 2	A-4377-261-A	PANEL BOARD, COMPLETE (N500:	AEP, AEP2, UK)
* 2	A-4377-818-A	PANEL BOARD, COMPLETE (N600:	EE)
* 2	A-4377-820-A	PANEL BOARD, COMPLETE (N600:	CIS)
* 2	A-4377-824-A	PANEL BOARD, COMPLETE (N500:	AUS, PX)
* 2	A-4377-827-A	PANEL BOARD, COMPLETE (N500:	EE)
* 2	A-4377-832-A	PANEL BOARD, COMPLETE (N600:	AEP, UK)
* 2	A-4377-833-A	PANEL BOARD, COMPLETE (N500:	E, MX, AR)
* 2	A-4377-835-A	PANEL BOARD, COMPLETE (N500:	CIS)
* 2	A-4377-919-A	PANEL BOARD, COMPLETE (N500:	G, IT)
* 2	A-4377-928-A	PANEL BOARD, COMPLETE (N600:	G, IT)
* 2	A-4378-420-A	PANEL BOARD, COMPLETE (N600:	E)
* 2	A-4378-423-A	PANEL BOARD, COMPLETE (N600:	AUS)
3	1-769-544-11	WIRE (FLAT TYPE) (15 CORE)	
4	4-951-620-01	SCREW (2.6X8), +BVTP	
5	1-769-546-11	WIRE (FLAT TYPE) (7 CORE)	
		(CIS, E, AUS/N5	00:MX, AR, PX)
5	1-769-547-11	WIRE (FLAT TYPE) (9 CORE) (AEP, UK, G, IT, E)	F /N500 • AFD9)
6	1-769-545-11	WIRE (FLAT TYPE) (15 CORE)	2, 11000 - 1111 2/
7		SCREW (CASE 3 TP2)	
8	4-969-777-11	· ·	
* 9	1-655-474-11	CONNECTOR BOARD (N600)	
* 10	4-969-784-02	PANEL, BACK (N500:UK)	
* 10	4-969-784-11	PANEL, BACK (N500: AEP, G, IT)	
* 10	4-969-784-21	PANEL, BACK (N500:EE, CIS)	
* 10	4-969-784-41	PANEL, BACK (N600: AEP, UK, G, I'	Γ)

Ref. No.	Part No.	Description		Remark
* 10	4-969-784-51	PANEL, BACK	- (N600:EE, C	IS)
* 10	4-970-163-02	PANEL, BACK	(N500:E)	
* 10	4-970-163-11	PANEL, BACK	(N500:MX, A	US, PX)
* 10	4-970-163-41	PANEL, BACK	(N500:AR)	
* 10	4-970-163-51	PANEL, BACK	(N600:E)	
* 10	4-970-163-61	PANEL, BACK	(N600:AUS)	
* 10	4-973-530-01	PANEL, BACK	(N500:AEP2)
* 11	A-4377-390-A	MAIN BOARD,	COMPLETE (N500:AEP)
* 11	A-4377-391-A	MAIN BOARD,	COMPLETE (N500:CIS)
* 11	A-4377-392-A	MAIN BOARD,	COMPLETE (N500:E)
* 11	A-4377-394-A	MAIN BOARD,	COMPLETE (N600: AEP, UK)
* 11	A-4377-819-A	MAIN BOARD,	COMPLETE (N600:EE)
* 11	A-4377-821-A	MAIN BOARD,	COMPLETE (N600:CIS)
* 11	A-4377-825-A	MAIN BOARD,	COMPLETE (N500:MX, AR, AUS, F
* 11	A-4377-828-A	MAIN BOARD,	COMPLETE (N500:EE)
* 11	A-4377-830-A	MAIN BOARD,	COMPLETE (N500:UK)
* 11	A-4377-920-A	MAIN BOARD,	COMPLETE (N500:G, IT)
* 11	A-4377-922-A	MAIN BOARD,	COMPLETE (N500:AEP2)
* 11	A-4377-929-A	MAIN BOARD,	COMPLETE (N600:G, IT)
* 11	A-4378-421-A	MAIN BOARD,	COMPLETE (N600:E, AUS)
12	X-4941-228-1	FOOT ASSY		
13	7-685-646-79	SCREW +BVTP	3X8 TYPE2	N-S
14	7-682-548-04	SCREW +BVTT	3X8 (S)	
15	4-924-098-21	HOLDER, PC	BOARD	

SECTION 5 ELECTRICAL PARTS LIST

CONNECTOR

MAIN

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS All resistors are in ohms. METAL: Metal-film resistor. METAL OXIDE: Metal oxide-film resistor. F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS In each case, $u:\mu$, for example: $uA \dots \mu A \dots uPA \dots \mu PA \dots$ uPB..: μ PB.. uPC..: μ PC.. uPD..: μ PD..
- CAPACITORS uF: μF
- COILS uΗ: μΗ

The components identified by mark A or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Abbreviations

IT:Italian MX:Mexican G:German AUS:Australian

AR: Argentin

EE:East European AEP:AEP model without power souce for PS-LX56P./ AEP2: AEP model with power souce for PS-LX56P.

Ref. No.	Part No.	Description		Re	mark	Ref. No.	Part No.	Descripti	ion	Re	emark
*	1-655-474-11	CONNECTOR B	OARD (N600)			C12	1-126-934-11	ELECT	220uF	20%	16V
		******	*****			C13	1-162-306-11	CERAMIC	0. 01uF	30%	16V
						C14	1-162-306-11	CERAMIC	0.01uF	30%	16V
		< CAPACITOR	. >			C15	1-164-159-11	CERAMIC	0. 1uF		50V
C760	1-164-159-11		0. 1uF		(N600)	C16	1-126-964-11	ELECT	10uF	20%	50V
C761	1-164-159-11	CERAMIC	0. 1uF	50V	(N600)	C17	1-124-902-00		0. 47uF	20%	50V
						C18	1-124-903-11		1uF	20%	50V
		< CONNECTOR	>			C19	1-124-903-11		1uF	20%	50V
711040						C20	1-126-964-11	ELECT	10uF	20%	50V
	1-770-249-41	,	•		(N600)						
******	*******	********	*******	******	****	C21	1-126-964-11		10uF	20%	50V
						C22	1-126-964-11	ELECT	10uF	20%	50V
	A-4377-390-A					C23	1-126-964-11	ELECT	10uF	20%	50V
*	A-4377-922-A		,			C24	1-137-436-11	FILM	0.0039uF	5%	50V
*	A-4377-830-A	MAIN BOARD,	COMPLETE (N	500:UK)		C25	1-137-436-11	FILM	0. 0039uF	5%	50V
*	A-4377-920-A	MAIN BOARD,	COMPLETE (N	500:G, IT)		C26	1-136-160-00	FILM	0. 039uF	5%	50V
*	A-4377-828-A	MAIN BOARD,	COMPLETE (N	500:EE)					(AEP, UK, G, IT, EE,	CIS/N50	0:AEP2)
*	A-4377-391-A					C26	1-136-158-00	FILM	0. 027uF	5%	50V
*	A-4377-392-A								(E, AUS/	N500: MX	(, AR, PX)
*	A-4377-825-A	MAIN BOARD,	COMPLETE (N	500:MX, AR, <i>A</i>	US, PX)	C27	1-136-160-00	FILM	0. 039uF	5%	50V
									(AEP, UK, G, IT, EE,	CIS/N50	0:AEP2)
	A-4377-394-A					C27	1-136-158-00	FILM	0. 027uF	5%	50V
*	A-4377-929-A								(E, AUS/	N500:MX	, AR, PX)
*	A-4377-819-A					C28	1-124-903-11	ELECT	1uF	20%	50V
*	A-4377-821-A	MAIN BOARD,	COMPLETE (NO	600:CIS)		C29	1-162-294-31	CERAMIC	0.001uF	10%	50V
*	A-4378-421-A	MAIN BOARD,	COMPLETE (NE	600:E, AUS)		C30	1-162-600-11	CERAMIC	0.0047uF	30%	16V
		******	******	*****		C31	1-126-967-11	ELECT	47uF	20%	16V
	1-537-770-11	TEDMINAL DOA	ממושף ממי			C32	1-126-111-11	ELECT	3. 3uF	20%	50V
	1 337 770 11	ILIUIIINAL DOM	,	0: AEP, AEP2	C IT)	C33	1-162-306-11	CEDANIC	0.01	200	1.077
			(1130	JU.ALI, ALIZ	, u, 11/	C34			0. 01uF	30%	16V
		< CAPACITOR	\			C35	1-126-933-11		100uF	20%	10V
		V OAL AUTTOR				I	1-162-306-11		0. 01uF	30%	16V
C1	1-162-306-11	CERAMIC	0, 01uF	30%	16V	C38 C40	1-162-211-31		33PF	5%	50V
C2	1-126-934-11		0. 01ur 220uF	30% 20%	16V 16V	040	1-101-005-00	CERAMIC	0. 22uF		50V
C3	1-162-306-11		0.01uF	30%	16V	041	1 104 150 11	appanta.	0.4.7		
C4	1-162-306-11		0. 01ur 0. 01uF	30% 30%	16V	C41	1-164-159-11	CERAMIC	0. 1uF	*	50V
C5	1-162-306-11					040	1 100 100 01	arning a	(AEP, UK, EE, (,
VV	1 102 300 11	OFIGNITO	0. 01uF	30%	16V	C42	1-162-196-31	CEKAMIC	5. 6PF (AEP, UK, EE, (10% CIS/N50	50V 0:AEP2)
C6	1-162-306-11	CERAMIC	0. 01uF	30%	16V	C42	1-162-198-31	CERAMIC	8. 2PF	10%	50V
C7	1-162-306-11	CERAMIC	0. 01uF	30%	16V				(G, IT, E, AUS/1		
C8	1-162-306-11	CERAMIC	0. 01uF	30%	16V	C43	1-162-306-11	CERAMIC	0. 01uF	30%	16V
C9 ·	1-101-004-00	CERAMIC	0.01uF		50V	C44	1-102-120-00		0. 0018uF	10%	50V
			(EE, CIS, E, AU	S/N500:MX.			220		(AEP, UK, EE, (
C11	1-162-306-11	~~~	0. 01uF	30%	16V	I			(, Oil, LD, (

Ref. No.	Part No.	Description		Re	mark	Ref. No.	Part No.	Description	l	Rem	ark
C45	1-162-301-11	CERAMIC	0. 0015uF (AEP, UK, EE	30%	16V	C202	1-162-306-11	CERAMIC	0. 01uF (AEP, UK, G, IT, E	30% E/N500	16V :AEP2)
C46	1-101-005-00	CERAMIC	0. 022uF		50V	C203	1-126-964-11	ELECT		20%	50V
C51	1-164-031-11		(AEP, UK, EE 33PF	5%	50V	C204	1-162-288-31	CERAMIC		10%	50V
C52 C53	1-164-027-11 1-162-306-11		22PF 0. 01uF	5% 30%	50V 16V	C205	1-126-964-11	ELECT	10uF	20%	50V
C54	1-126-967-11		47uF 0. 001uF	20% 10%	16V 50V	C206	1-124-925-11	ELECT	(AEP, UK, G, IT, E 2. 2uF	c/Naou 20%	100V
C55	1-162-294-31					0200	1 121 020 11	DED 01	(AEP, UK, G, IT, E	E/N500	: AEP2)
C56	1-162-306-11		0. 01uF	30%	16V	C207	1-162-306-11	CERAMIC	0. 01uF	30%	16V
C57	1-162-306-11		0. 01uF	30%	16V	0207	1-102 300 11	OLIMITO	(AEP, UK, G, IT, E		
C58	1-162-306-11		0.01uF	30%	16V	0000	1-162-291-31	CEDAMIC		10%	50V
C61	1-124-925-11		2. 2uF	20%	100V	C208	1-102-291-31	CENAMIC	(AEP, UK, G, IT, E		
C62	1-164-159-11	CERAMIC	0. 1uF		50V	0000	1-102-527-11	CEDAMIC		5%	50V
					4.047	C209	1-102-327-11	CENAMIC	(AEP, UK, G, IT, E		
C63	1-162-306-11		0. 01uF	30%	16V	0040	4 404 000 00	CEDAMIC	47PF	5%	50V
C65	1-162-306-11		0.01uF	30%	16V	C210	1-101-880-00	CERAMIC	(AEP, UK, G, IT, F		
C68	1-162-306-11		0.01uF	30%	16V	2011	4 400 000 11	GEDANIC	0. 01uF	30%	16V
C69	1-126-934-11		220uF	20%	16V	C211	1-162-306-11	CERAMIC	(AEP, UK, G, IT, F		
C71	1-136-173-00	FILM	0. 47uF	5%	50V				(AEF, UK, G, 11, 1	.L/ NJU	J. DLI 2)
			(AEP, UK, EI	E, CIS/N5	00:AEPZ)	0010	1 100 004 11	ri rer	10uF	20%	50V
					0511	C212	1-126-964-11	ELECI	(AEP, UK, G, IT, I		
C72	1-161-494-00	CERAMIC	0. 022uF		25V	0010	1 100 004 01	CEDAMIC	0. 001uF	.L/N30	50V
			(AEP, UK, EI	E, CIS/N5		C213	1-162-294-31	CERAMIC	(AEP, UK, G, IT, I		
C73	1-161-494-00) CERAMIC	0. 022uF		25V	2011	4 400 004 0	CEDAMIC	0, 001uF	10%	50V
			(AEP, UK, E			C214	1-162-294-33	CERAMIC	(AEP, UK, G, IT, I		
C95	1-124-907-11				OV (CIS)	2045	4 400 000 1	CEDANIC	0. 01uF	30%	16V
C96	1-124-907-11				OV (CIS)	C215	1-162-306-13	CERAMIC	(AEP, UK, G, IT, EE, C		
C101	1-162-294-31		0.001uF		OV (CIS)	2004	4 400 000 0		330PF	10%	50V
C102	1-130-014-00				OV (CIS)	C301	1-162-288-3	LUCKAMIU	33011	10.0	301
C103	1-124-902-00) ELECT	0. 47uF	20% 5	OV(CIS)	0000	1 100 000 0	CEDAMIC	100PF	10%	50V
				000	יסנו (מדמ)	C303	1-162-282-3 1-162-282-3		100FF	10%	50V
C104	1-124-902-00				OV (CIS)	C304	1-102-202-3		4. 7uF	20%	50V
C105	1-164-098-1		0. 047uF		.2V(CIS)	C305	1-120-903-1		0. 0047uF	30%	16V
C106	1-124-903-1				50V (CIS)	C306	1-102-000-1	I GERAMIC	0.004741	JUA	101
C107	1-162-288-3				50V (CIS)	0207	1-162-301-1	1 CEDAMIC	0. 0015uF	30%	16V
C110	1-130-471-0	O MYLAR	0. 001uF	5% 3	SOV (CIS)	C307	1-102-301-1		0. 47uF 20%		(N500)
	_		0 004 F	F0/ F	-011/010)	C308	1-124-902-0		0. 47th 20%		(N600)
C111	1-130-471-0		0.001uF		50V (CIS)	C308	1-124-464-1		47uF	20%	16V
C112	1-130-736-1		0. 01uF		50V (CIS)	C309	1-162-286-2		220PF	10%	50V
C113	1-130-736-1				50V (CIS)	C310	1-102-200-2	1 OLIMANIC	22011	10/0	
C114	1-124-903-1				50V (CIS)	C211	1-162-282-3	1 CEDAMIC	100PF	10%	50V
C115	1-124-903-1	1 ELECT	1uF	20%	50V (CIS)	C311 C312	1-162-282-3		100PF	10%	50V
		4 DI DOM	1F	200	=0V/CIG)	C312	1-102 202 3		1uF	20%	50V
C116	1-124-903-1		1uF		50V (CIS)	C314	1-124-903-1		1uF	20%	50V
C119	1-104-664-1				16V (CIS)	C320	1-162-306-1		0. 01uF	30%	16V
C120	1-162-306-1				16V (CIS)	0320	1 102 300 1	I OLIUMITO	Or O'Lui		
C123	1-162-306-1		0. 01uF		16V (CIS)	C321	1-162-306-1	1 CFRAMIC	0. 01uF	30%	16V
C124	1-162-306-1	I CERAMIC	0. 01uF	30%	16V (CIS)	C321			330PF	10%	50V
~.~-	4 404 007 4	4 PI POT	47P	20%	160/016)	C353			100PF	10%	50V
C125	1-104-664-1		47uF		16V (CIS) 50V (CIS)	C354			100PF	10%	50V
C126	1-124-903-1		1uF		50V (CIS)	C355			4. 7uF	20%	50V
C127	1-124-903-1		1uF			0000	1 120 300 1	.1 2000/1	2. 1 4.1		
C128	1-104-663-1		33uF		16V (CIS) 50V	C356	1-162-600-3	1 CERAMIC	0. 0047uF	30%	16V
C201	1-162-291-3	OI CERAMIC	560PF (AEP, UK, G,			C357			0. 0015uF	30%	16V
			(ALT, UN, U,	11, EE/N	JUU.ALF4)	C358			0. 47uF 209		(N500)
						1 0330	I 164 306 (,, 12101	3, 1.41 20		,/



Ref. No.	Part No.	Description		Res	mark	Ref. No.	Part No.	Description	•	Ren	∟ ıark
nel. No.	rait NO.	—————		-				————		Tien	
C358	1-124-464-11	ELECT	0. 22uF 20%	50V	(N600)	C839	1-124-477-11	ELECT	47uF	20%	25V
C359	1-126-967-11	ELECT	47uF	20%	16V	C840	1-126-967-11	ELECT	47uF	20%	50V
						C841	1-124-478-11	ELECT	100uF	20%	25V
C360	1-162-286-21	CERAMIC	220PF	10%	50V	C842	1-162-306-11	CERAMIC	0.01uF	30%	16V
C501	1-136-162-00	FILM	0. 056uF	5%	50V						
C502	1-136-156-00		0. 018uF	5%	50V	C843	1-126-943-11	ELECT	2200uF	20%	25V
C503	1-124-903-11		1uF	20%	50V	C844	1-124-477-11		47uF	20%	25V
C504	1-162-302-11		0. 0022uF	30%	16V	****				(N500:AEP2	
0001	1 102 002 11	02121110	0.00	00.0	20.	C845	1-164-159-11	CERAMIC	0. 1uF	(50V
C505	1-136-162-00	FILM	0.056uF	5%	50V	C846	1-124-477-11		47uF	20%	25V
C506	1-162-600-11		0. 0047uF	30%	16V	C851	1-136-177-00		1uF	5%	50V
C507	1-136-169-00		0. 22uF	5%	50V	C852	1-136-169-00		0. 22uF	5%	50V
C508	1-136-162-00		0. 22di 0. 056uF	5%	50V	C853	1-124-903-11		1uF	20%	50V
C509	1-136-162-00		0. 056uF	5%	50V	0000	1 124 303 11	LLLVI	Tui	2070	301
6303	1-130-102-00	LILM	0. 030ur	J/0	301	C854	1-136-169-00	EIIM	0. 22uF	5%	50V
CE10	1 120 004 11	ELECT	10	200	50V					5%	50V
C510	1-126-964-11		10uF	20%	[C855	1-136-162-00		0. 056uF		
C511	1-162-306-11		0. 01uF	30%	16V	C856	1-124-903-11		1uF	20%	50V
C533	1-126-964-11		10uF	20%	50V	C857	1-136-161-00		0. 047uF	5%	50V
C534	1-126-964-11		10uF	20%	50V	C858	1-136-153-00	FILM	0. 01uF	5%	50V
C535	1-164-159-11	CERAMIC	0. 1uF		50V						
						C859	1-124-903-11		1uF	20%	50V
C536	1-164-159-11	CERAMIC	0. 1uF		50V	C860	1-130-479-00	MYLAR	0.0047uF	5%	50V
C537	1-162-286-21	CERAMIC	220PF	10%	50V	C861	1-124-903-11	ELECT	1uF	20%	50V
C552	1-136-156-00	FILM	0. 018uF	5%	50V	C862	1-126-964-11	ELECT	10uF	20%	50V
C553	1-124-903-11	ELECT	1uF	20%	50V	C863	1-126-964-11	ELECT	10uF	20%	50V
C554	1-162-302-11	CERAMIC	0. 0022uF	30%	16V						
						C871	1-126-964-11	ELECT	10uF	20%	50V
C555	1-136-162-00	FILM	0. 056uF	5%	50V	C872	1-124-925-11	ELECT	2. 2uF	20%	100V
C556	1-162-600-11	CERAMIC	0. 0047uF	30%	16V	C880	1-162-294-31	CERAMIC	0.001uF	10%	50V
C557	1-136-169-00		0. 22uF	5%	50V	C883	1-162-306-11		0. 01uF	30%	16V
C558	1-136-162-00		0. 056uF	5%	50V	C884	1-162-306-11		0. 01uF	30%	16V
C801	1-124-122-11		100uF	20%	50V	0001	1 102 000 11	ODIUMIT O	0.0141	00%	101
0001	1 101 100 11	BEEGI	10041	20.0	001	C885	1-164-159-11	CERAMIC	0. 1uF		50V
C802	1-128-576-11	FLECT	100uF	20%	63V	0000	1 101 100 11	Chiamito	0. 14.	(N500:AEP2	
C803	1-162-306-11		0. 01uF	30%	16V	C886	1-162-282-31	CERAMIC	100PF	10% 50V	(N600)
C804	1-128-552-51		47uF	20%	63V	C887	1-161-494-00		0. 022uF	10% 001	25V
C805	1-124-122-11		100uF	20%	50V	C888	1-162-294-31		0. 022ur	10%	50V
C806	1-126-971-11		470uF	20%	50V	C890	1-164-159-11		0. 1uF	10/0	50V
0000	1 120 371 11	ELECT	470ur	LU10	JUY .	0030	1 104 133 11	CERMITO		0:E, MX, AR,	
C807	1-162-306-11	CEDAMIC	0. 01uF	30%	16V				(1130	o. E, MA, An,	AU, FA)
C807	1-104-300-11		0. 01ur 2. 2uF	20%	100V			< FILTER >			
								\ TILIER /			
C809	1-124-925-11		2. 2uF	20%	100V	OF4	1 507 200 11	CILTED ACDAMIA			
C811	1-126-944-11		3300uF	20%	25V	CF1		FILTER, CERAMIC	/AED UV	G IM (NEOO	100)
C812	1-126-944-11	ELECT	3300uF	20%	25V	CF2		FILTER, CERAMIC			,
		ann				CF3		FILTER, CERAMIC	(ALP, UK,	G, IT/N500:	AEPZ)
C813	1-101-004-00		0. 01uF		50V	CF3	1-567-389-11	FILTER, CERAMIC			
C814	1-101-004-00	CERAMIC	0. 01uF		50V					JS/N500:MX,	AR, PX)
C815	1-126-964-11	ELECT	10uF	20%	50V	CF4	1-760-220-11	FILTER, CERAMIC	(10.7MHz	(;)	
C816	1-126-964-11	ELECT	10uF	20%	50V						
C817	1-126-933-11	ELECT	100uF	20%	16V	CF5 CF6		FILTER, CERAMIC OSCILLATOR, CERA			
C818	1-126-933-11	ELECT	100uF	20%	16V	J. J			(100	/	
C831	1-126-964-11		10uF	20%	50V			< CONNECTOR >			
C832	1-124-463-00		0. 1uF	20%	50V			COMMEDIATE /			
C835	1-124-403-00		10uF	20%	50V	* CN2	1_568_929_11	SOCKET, CONNECTO	D OD		
C837	1-126-933-11			20%	1	· UNZ	1 300 020-11			IT EE AICOO	• VED3/
\03 <i>1</i>	1 140 339-11	PPEA1	100uF	∆U/n)	10V	* CMo	1_569_096_11	SOCKET, CONNECTO		IT, EE/N500	. ALF 4)
C838	1_19/_199 11	EI ECT	100.0	20%	50V	* CN2	1-300-020-11			IC /NEDO - MV	AD DV
0030	1-124-122-11	PPEO1	100uF	∠U/n	JUY				(013, E, AU	JS/N500:MX,	ли, ГЛ <i>)</i>

Ref. No.	Part No.	Descript	tion	Remark ———	Ref. No.	Part No.	Descrip	tion	Remark
* CN801	1-568-936-11	PIN, CON	NECTOR 9P (N600)		D852	8-719-987-63	DIODE	1N4148M	
CN802	1-764-017-11	HOUSING,	CONNECTOR (PC BOARD) 17P		D853	8-719-987-63	DIODE	1N4148M	[
CN803	1-770-248-31	HOUSING,	CONNECTOR (PC BOARD) 16P		D854	8 - 719 - 987 - 63	DIODE	1N4148M	I
* CN805	1-566-210-11	PIN, CON	NECTOR 3P (POWER SOURCE	E)					
			(N500:	AEP2, UK, E)	D871	8-719-987-63	DIODE	1N4148M	
			CONNECTOR 15P		D872	8-719-815-85	DIODE	1S1585	
* CN821	1-568-834-11	SOCKET,	CONNECTOR 15P						
		/ MD TIME	3D. \				< TERM!	INAL >	
		< TRIMME	:K >		ED001	1_527_770_11	TEDMIN	I DOADD	CDOUND
ሮ ፐ1በ1	1-141-260-00	CAD TRI	IMMER 50PF (CIS)		EDOUT	1-537-770-11			E, AUS, /N500:MX, AR, PX)
01101	1 141 200 00	UMI, IIII	IMMER JOIL (015)				(01	, LL, VIU,	L, AOD, / NOOO . MA, MI, I M/
		< DIODE	>				< FERR	TE BEAD	>
D1 .	8-719-987-63	DIODE	1N4148M		FB801	1-412-473-21	INDUCTO)R	OUH (N600)
D2	8-719-987-63	DIODE	1N4148M (CIS)						
D3	8-719-987-63		1N4148M (CIS)				< FRON	r end >	
D101	8-719-987-63		1N4148M (CIS)						
D103	8-719-987-63	DIODE	1N4148M (CIS)		FE1	1-693-253-21	FRONT I	END (4 GA	
D104	0.740.007.00	DIODE	1N4140W (0T0)		CC4	1 000 044 01	CDONE I	ND (0 CA	(AEP, UK, G, IT/N500:AEP2)
D104	8-719-987-63		1N4148M (CIS) 1N4148M (CIS)		FE1 FE1	1-693-244-21 1-693-090-51			
D105 D801	8-719-987-63 8-719-024-99		11ES2-NTA2B		LEI	1-093-090-31	TRUNT I	CND (FM)	(E, AUS/N500: MX, AR, PX)
D802	8-719-024-99		11ES2-NTA2B						(E, AUS/NJUU.MA, AR, FA)
D802	8-719-024-99		11ES2-NTA2B				< IC >		
	0 110 021 00	DIODE	THUE MINED				(10)		
D804	8-719-024-99	DIODE	11ES2-NTA2B		IC3	8-759-176-03	IC L	1835	
D805	8-719-024-99	DIODE	11ES2-NTA2B		IC51	8-759-288-54	IC LO	72130	
D806	8-719-024-99	DIODE	11ES2-NTA2B		IC101	8-759-063-04	IC II	R3R42 (C1	(S)
D807	8-719-934-22	DIODE	HZS30-2L		IC102	8-759-140-53	IC ul	PD4053BC	(CIS)
D808	8-719-933-48	DIODE	HZS7B3L		IC201	8-759-634-51	IC M	5218AP (A	AEP, UK, G, IT, EE/N500:AEP2)
2000		D. F. O.D. E.	43/44.4034		*****	0.550.400.00	10 0		DD LIV G IM DD AUTOO ADDO)
D809	8-719-987-63		1N4148M			8-759-169-99			AEP, UK, G, IT, EE/N500:AEP2)
D810 D811	8-719-024-99 8-719-024-99		11ES2-NTA2B 11ES2-NTA2B			8-759-000-48 8-759-140-53		C14052BCF PD4053BC	,
D811 D812	8-719-024-99		UZL-11M1			8-759-634-51		5218AP	
D815	8-719-024-99		11ES2-NTA2B			8-759-634-51		5218AP	
2020	5 .10 021 00	21022	111111		10101	0 .00 001 01	20		
D816	8-719-024-99	DIODE	11ES2-NTA2B		IC501	8-759-291-98	IC M	62423FP	
D817	8-719-024-99	DIODE	11ES2-NTA2B		IC502	8-759-000-49	IC M	C14066BCF)
D818	8-719-024-99		11ES2-NTA2B			8-759-820-13		78MR06	
D819	8-719-024-99		11ES2-NTA2B			8-759-604-86		5F7807L	
D820	8-719-024-99	DIODE	11ES2-NTA2B		IC803	8-759-604-90	IC M	5F7907L	
ከያ91	8-719-024-99	DIODE	11EC9_NTA9D		10004	0_750_991_59	ור יי	1790EC	
D821 D822	8-719-024-99		11ES2-NTA2B 11ES2-NTA2B			8-759-231-53 8-759-634-51		A7805S 5218AP	
D823	8-719-024-99		11ES2-NTA2B (N500:AEP2	IIK E)		8-759-000-48		0210AF C14052BCF) ·
D824	8-719-024-99		11ES2-NTA2B (N500:AEP2	1 1	10031	0 753 000 40	10 11	714032001	
D825	8-719-024-99		11ES2-NTA2B (N500:AEP2				< IFT	>	
	, .10 0m1 00		(NOOTHER A	,,,					
D826	8-719-024-99	DIODE	11ES2-NTA2B		IFT1	1-409-636-11	TRANSF	ORMER, IF	(CERAMIC FILTER)
D827	8-719-024-99	DIODE	11ES2-NTA2B					•	
D828	8-719-024-99	DIODE	11ES2-NTA2B				< JACK	>	
D829	8-719-024-99	DIODE	11ES2-NTA2B						
D830	8-719-024-99	DIODE	11ES2-NTA2B		* J801	1-580-912-11	JACK,	PIN 4P(PI	
									(N600: AEP, G, IT/N500)
D831	8-719-000-84		UZL-7M1		J801	1-580-905-11	JACK,	PIN (PHO	•
D851	8-719-987-63	DIODE	1N4148M						(N600:UK, EE, CIS, E, AUS)



J	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	_	Remark
-			< COIT >		Q811 Q812	8-729-119-78 8-729-119-78		2SC2785-HFE 2SC2785-HFE	
	L1	1-407-500-00	INDUCTOR	4. 7mH	224	0 500 400 55	TRANSTOTOR	11114444	
	1.4	1 440 000 01	LNDUGTOD	(AEP, UK, EE, CIS/N500: AEP2)	Q814 Q815	8-729-422-57 8-729-900-80		UN4111 DTC114ES	
	L1	1-410-688-31	INDUCTOR	1. 5mH (G, IT, E, AUS/N500:MX, AR, PX)	Q816	8-729-141-30		2SC3623A-LK	(EXCEPT CIS)
	L2	1-410-524-41	INDUCTOR	220uH (AEP/N500: AEP2)	4010	0 120 111 40			,
	L2	1-410-525-11	INDUCTOR	220uH (UK, EE, CIS)			< RESISTOR	>	
	L31	1-414-142-11		1uH		4 040 404 44	a i bbon	40 50	4 /450
	L101	1-409-497-11	COIL (FILTER)	(CIS)	R4 R5	1-249-401-11 1-249-411-11		47 5% 330 5%	1/4W 1/4W
			< FILTER >		R6	1-249-433-11		22K 5%	1/4W
			(I ILILII /		R7	1-249-411-11		330 5%	1/4W
	LPF1	1-239-597-11	FILTER, LOW	PASS	R8	1-249-411-11	CARBON	330 5%	1/4W
	LPF2	1-239-597-11	FILTER, LOW	PASS					
					R9	1-249-433-11		22K 5%	1/4W
			< TRANSISTOR	>	R10	1-249-411-11		330 5% 22K 5%	1/4W 1/4W
	Q1	8-729-230-99	TDANGICTOD	2SC2669-0Y	R11	1-249-433-11			C, CIS/N500: AEP2)
	Q2	8-729-230-99		2SC2669-0Y	R11	1-249-411-11		330 5%	1/4W
	Q3	8-729-230-99		2SC2669-0Y				(E, AUS	S/N500:MX, AR, PX)
	Q4	8-729-230-99	TRANSISTOR	2SC2669-0Y	R12	1-249-411-11		330 5%	1/4W
	Q5	8-729-422-57	TRANSISTOR	UN4111	R13	1-249-411-11		330 5%	1/4W
	0.0	0 700 440 70	mp a MO I OMOD	0011175 UEF	D14	1 040 400 11		AEP, UK, G, 1T, EE 22K 5%	I, CIS/N500: AEP2) 1/4W
	Q6	8-729-119-76	TRANSISTOR	2SA1175-HFE (AEP, UK, EE, CIS/N500: AEP2)	R14	1-249-433-11			., CIS/N500:AEP2)
	Q7	8-729-119-76	TRANSISTOR	2SA1175-HFE	R15	1-249-405-11		100 5%	1/4W
	4,	0 120 110 70	TILLIO TO TOTO	(AEP, UK, EE, CIS/N500: AEP2)	R16	1-249-442-11		510 5%	1/4W
	Q8	8-729-900-80	TRANSISTOR	DTC114ES	R17	1-249-403-11		68 5%	1/4W
				(AEP, UK, EE, CIS/N500: AEP2)	R18	1-249-423-11		3. 3K 5%	1/4W
	Q9	8-729-900-80	TRANSISTOR	DTC114ES	R19	1-249-441-11	CARBON	100K 5%	1/4W
	Q10	8-729-900-80	TDANCICTOD	(AEP, UK, EE, CIS/N500: AEP2) DTC114ES	R20	1-249-429-11	CARRON	10K 5%	1/4W
	QIU	0-729-900-60	mansision	(AEP, UK, EE, CIS/N500: AEP2)	R25	1-249-429-11		10K 5%	1/4W
				(1111) (11) (11) (11)	R26	1-249-429-11		10K 5%	1/4W
	Q11	8-729-900-80	TRANSISTOR	DTC114ES				. , ,	E, CIS/N500:AEP2)
				(AEP, UK, EE, CIS/N500:AEP2)	R28	1-249-401-11		47 5%	1/4W
	Q101	8-729-422-57		UN4111 (CIS)	R40	1-249-399-11		33 5%	1/4W
	Q102	8-729-900-80 8-729-900-80		DTC114ES (CIS) DTC114ES (CIS)	R41	1-249-429-11	CARBON	10K 5%	1/4W , CIS/N500:AEP2)
	Q103 Q320	8-729-900-80		DTC114ES (013)	R42	1-249-429-11	CARBON	10K 5%	1/4W
	Q501	8-729-900-80		DTC114ES					, CIS/N500:AEP2)
					R43	1-249-441-11		100K 5%	1/4W
	Q502	8-729-422-57		UN4111	R44	1-249-425-11	CARBON	4. 7K 5%	1/4W
	Q503	8-729-422-57		UN4111	DAE	1 940 427 11	CADDON		E, CIS/N500: AEP2)
	Q504 Q505	8-729-119-78 8-729-119-78		2SC2785-HFE 2SC2785-HFE	R45 R46	1-249-437-11 1-247-903-00		47K 5% 1M 5%	1/4W 1/4W
	Q801	8-729-111-29		2SD1616A-K	1140	1 247 303 00	Onibon		E, CIS/N500: AEP2)
	QUUI	0 120 111 20			R47	1-249-433-11	CARBON	22K 5%	1/4W
	Q802	8-729-801-84	TRANSISTOR	2SB1013-4 (N600)					E, CIS/N500:AEP2)
	Q803	8-729-119-78		2SC2785-HFE	R48	1-249-437-11	CARBON	47K 5%	1/4W
	Q804	8-729-030-19		2SB1640	DEO	1 040 401 11	CADDON		E, CIS/N500: AEP2)
	Q805	8-729-209-15		2SD2012	R50 R52	1-249-401-11 1-249-429-11		47 5% 10K 5%	1/4W 1/4W
	Q806	8-729-900-80	TUNIO1910K	DTC114ES	R52 R53	1-249-429-11		3. 3K 5%	1/4W
	Q807	8-729-141-30	TRANSISTOR	2SC3623A-LK	R55	1-249-417-11		1K 5%	1/4W
	Q808	8-729-141-30		2SC3623A-LK	R56	1-249-417-11		1K 5%	1/4W
	Q810	8-729-422-57		UN4111				(AEP, UK, EE	, CIS/N500:AEP2)

Ref. No.	Part No.	Description			Re	mark	Ref. No.	Part No.	Description			Re	mark
R57	1-249-417-11	CARBON	1K 59	6 :	 1/4W		R303	1-249-437-11	CARBON	47K	5%	1/4W	
			(AEP, UK, 1	EE, CIS	S/N50	0:AEP2)	R304	1-249-416-11	CARBON	820	5%	1/4W	
R58	1-249-417-11	CARBON	1K 59		1/4W	•	R305	1-247-897-11		560K		1/4W	
R59	1-249-417-11	CARBON	1K 59		1/4W							~,	
R60	1-249-405-11		100 59		1/4W		R306	1-249-437-11	CARRON	47K	5%	1/4W	
R61	1-249-423-11		3. 3K 59		1/4W		R307	1-249-422-11		2. 7K		1/4W	(N500)
R62	1-249-425-11		4. 7K 59		1/4W		R307	1-249-409-11		220	5%	1/4W	(N600)
1102	1 243 420 11	Unidon	4.711 37	υ.	1/ 411		R308	1-249-427-11		6. 8K		1/4W	(N500)
R63	1-249-425-11	CADRON	4.7K 59	, ,	1/4W		R308	1-249-441-11		100K			
							nouo	1-249-441-11	CARDUN	TOOK	376	1/4W	(N600)
R64	1-249-425-11		4. 7K 59		1/4W		Page	1 040 400 44	al Prov	000	- 0.	4 4477	
R65	1-247-807-31		100 59		1/4W		R309	1-249-409-11		220	5%	1/4W	()
R66	1-249-425-11		4. 7K 59		1/4W		R310	1-249-425-11		4. 7K		1/4W	(N500)
R71	1-249-423-11	CARBON	3. 3K 59		1/4W		R310	1-249-417-11		1K	5%	1/4W	(N600)
			(AEP, UK, I			0:AEP2)	R311	1-249-431-11		15K	5%	1/4₩	(N500)
R72	1-249-433-11	CARBON	22K 59		1/4W		R311	1-249-441-11	CARBON	100K	5%	1/4W	(N600)
			(AEP, UK, I	EE, CIS	S/N50	0:AEP2)							
R73	1-249-425-11	CARBON	4. 7K 59	6 .	1/4W		R312	1-249-417-11	CARBON	1K	5%	1/4W	
			(AEP, UK, I	EE, CIS	S/N50	0:AEP2)	R313	1-249-417-11	CARBON	1K	5%	1/4W	
R74	1-249-425-11	CARBON	4.7K 59	6 :	1/4W		R314	1-249-417-11	CARBON	1K	5%	1/4W	
			(AEP, UK, I			0:AEP2)	R315	1-247-807-31		100	5%	1/4W	
R75	1-249-425-11	CARBON	4. 7K 59	,	1/4W	· · · · · · · · · · · · · · · · · · ·	R316	1-249-417-11		1K	5%	1/4W	
			(AEP, UK, I		•	Π·AFP2)	, nois	1 210 117 11	OTHEON	111	0/0	1/ 111	
R101	1-249-432-11	CARRON	18K 59			(CIS)	R317	1-249-417-11	CADRON	1K	5%	1/4W	
R102	1-249-435-11		33K 59			(CIS)	R318	1-249-419-11		1. 5K			
R103	1-249-427-11		6. 8K 5%				1					1/4W	
						(CIS)	R319	1-249-417-11		1K	5% =~:	1/4W	
R104	1-247-858-11		13K 5%			(CIS)	R320	1-249-429-11		10K	5%	1/4W	
R105	1-249-417-11	CARBON	1K 5%	6]	1/4W	(CIS)	R321	1-249-429-11	CARBON	10K	5%	1/4W	
R106	1-249-417-11		1K 5%			(CIS)	R322	1-249-429-11		10K	5%	1/4W	
R107	1-249-441-11		100K 5%			(CIS)	R323	1-249-429-11	CARBON	10K	5%	1/4W	
R108	1-249-440-11	CARBON	82K 5%		1/4W	(CIS)	R324	1-249-423-11	CARBON	3. 3K	5%	1/4W	(N500)
R109	1-249-437-11	CARBON	47K 5%	6 1	1/4W	(CIS)	R324	1-249-431-11	CARBON	15K	5%	1/4W	(N600)
R110	1-249-429-11	CARBON	10K 5%	5 1	1/4W	(CIS)	R327	1-249-417-11	CARBON	1K	5%	1/4W	
D444	4 040 400 44	a a provi	4011 50			(0.7.0)						(EXCE	PT CIS)
R111	1-249-429-11		10K 5%			(CIS)							
R114	1-249-426-11		5.6K 5%			(CIS)	R328	1-249-429-11		10K	5%	1/4W	
R115	1-249-426-11		5.6K 5%			(CIS)	R329	1-249-429-11	CARBON	10K	5%	1/4W	
R116	1-249-441-11		100K 5%		L/4W	(CIS)	R342	1-249-441-11	CARBON	100K	5%	1/4W	
R117	1-249-441-11	CARBON	100K 5%	5 1	L/4W	(CIS)	R343	1-249-441-11	CARBON	100K	5%	1/4W	
							R345	1-247-807-31	CARBON	100	5%	1/4W	
R118	1-249-429-11		10K 5%	5 1	L/4W	(CIS)							
R119	1-249-429-11	CARBON	10K 5%	5 1	L/4W	(CIS)	R346	1-247-807-31	CARBON	100	5%	1/4W	
R121	1-249-434-11	CARBON	27K 5%			(CIS)	R351	1-249-417-11		1K	5%	1/4W	
R122	1-249-441-11	CARBON	100K 5%			(CIS)	R352	1-249-417-11		1K	5%	1/4W	
R201	1-249-441-11		100K 5%		L/4W	` ,	R353	1-249-437-11		47K	5%	1/4W	
			(AEP, UK, G,			O:AEP2)	R354	1-249-416-11		820	5%	1/4W	
R202	1-249-441-11	CARBON	100K 5%	,	L/4W	J. 1.121 2/	1.001	1 210 110 11	OIMEDON	020	0/0	1/ 111	
	1 210 111 11	OTHER OTT	(AEP, UK, G,			0 · AFD2)	R355	1-947-907-11	CADRON	EGUN	E0/	1 //1	
R203	1-249-433-11	CARRON	22K 5%		:/N30 L/4W	o.nu 4)	R356	1-247-897-11 1-249-437-11		560K		1/4W	
RZUU	1 243 433 11	CALIDON				n - AFDo)	1			47K	5%	1/4W	(11500)
0004	1 040 400 11	CADDON	(AEP, UK, G,	,		U:AEPZ)	R357	1-249-422-11		2. 7K		1/4W	(N500)
R204	1-249-426-11	UAKBUN	5. 6K 5%		1/4W	O AEDO'	R357	1-249-409-11		220	5%	1/4W	(N600)
D007	4 045 005 01	a i provi	(AEP, UK, G,			U:AEPZ)	R358	1-249-427-11	CARBON	6. 8K	5%	1/4W	(N500)
R205	1-247-807-31	CARBON	100 5%		L/4W								
			(AEP, UK, G,		E/N50	D:AEP2)	R358	1-249-441-11	CARBON	100K	5%	1/4W	(N600)
R206	1-249-421-11	CARBON	2. 2K 5%		L/4W		R359	1-249-409-11	CARBON	220	5%	1/4W	
		-	(AEP, UK, G,	IT, EE	E/N50	D:AEP2)	R360	1-249-425-11	CARBON	4. 7K	5%	1/4W	(N500)
R301	1-249-417-11	CARBON	1K 5%	1	L/4W		R360	1-249-417-11	CARBON	1K	5%	1/4W	(N600)
R302	1-249-417-11	CARBON	1K 5%	1	L/4W		R361	1-249-431-11	CARBON	15K	5%	1/4W	(N500)

													1012
Ref. No.	Part No.	Description			Re	mark ——	Ref. No.	Part No.	Description			Re	mark
R361	1-249-441-11	CARBON	100K	5%	1/4W	(N600)	<u></u>	1-212-873-11	FUSIBLE	47	5%	1/4W	F
R364	1-249-417-11	CARBON	1K	5%	1/4W								
R366	1-249-417-11	CARBON	1K	5%	1/4W		<u></u> ∧ R843	1-212-873-11	FUSIBLE	47	5%	1/4W	F (N600)
R367	1-249-417-11		1K	5%	1/4W		R844	1-249-429-11	CARBON	10K	5%	1/4W	
R368	1-249-419-11	CARBON	1. 5K	5%	1/4W		R851	1-249-416-11	CARBON	820	5%	1/4W	
					•		R852	1-249-429-11	CARBON	10K	5%	1/4W	
R369	1-249-417-11	CARBON	1K	5%	1/4W		R853	1-249-441-11		100K	5%	1/4W	
R370	1-249-441-11		100K		1/4W							,	
R371	1-247-883-00		150K		1/4W		R854	1-249-417-11	CARBON	1K	5%	1/4W	
R374	1-249-423-11		3. 3K		1/4W	(N500)	R855	1-249-429-11		10K	5%	1/4W	
R374	1-249-431-11		15K	5%	1/4W	(N600)	R856	1-249-441-11		100K		1/4W	
11374	1 243 431 11	OMIDON	1011	0/1)	1/ 111	(11000)	R857	1-249-417-11		1K	5%	1/4W	
R382	1-249-401-11	CADDON	47	5%	1/4W	(N600)	R858	1-249-430-11		12K	5%	1/4W	
				5%	1/4W	(N600)	ROJO	1 243 430 11	CALDON	1211	J //s	1/411	
R383	1-249-401-11		47		•	(NOUU)	DOEO	1 940 441 11	CADDON	100K	ΕOV	1 /AW	
R501	1-249-417-11		1K	5%	1/4W		R859	1-249-441-11				1/4W	
R502	1-249-417-11		1K	5%	1/4W		R860	1-249-429-11		10K	5% 5%	1/4W	
R503	1-249-417-11	CARBON	1K	5%	1/4W		R861	1-249-441-11		100K		1/4W	
						(1100)	R862	1-249-423-11		3. 3K		1/4W	
R504	1-249-441-11		100K		1/4W	(N500)	R863	1-249-423-11	CARBON	3. 3K	5%	1/4W	
R504	1-249-433-11		22K	5%	1/4W	(N600)							
R505	1-249-426-11		5. 6K		1/4W		R864	1-249-429-11	CARBON	10K	5%	1/4W	
R506	1-249-441-11	CARBON	100K	5%	1/4W		R865	1-249-429-11	CARBON	10K	5%	1/4W	
R510	1-249-417-11	CARBON	1K	5%	1/4W	(N500)	R866	1-249-417-11	CARBON	1K	5%	1/4W	
							R867	1-249-417-11		1K	5%	1/4W	
R510	1-249-423-11	CARBON	3. 3K	5%	1/4W	(N600)	R869	1-249-429-11	CARBON	10K	5%	1/4W	(N500)
R554	1-249-441-11	CARBON	100K	5%	1/4W	(N500)							
R554	1-249-433-11	CARBON	22K	5%	1/4W	(N600)	R871	1-249-433-11	CARBON	22K	5%	1/4W	
R555	1-249-426-11		5. 6K		1/4W	, ,	R872	1-249-433-11	CARBON	22K	5%	1/4W	
R556	1-249-417-11		1K	5%	1/4W		R873	1-249-441-11		100K	5%	1/4W	
11000	1 210 111 11			0.0	-,		R874	1-247-807-31		100	5%	1/4W	
R557	1-247-887-00	CARRON	220K	5%	1/4W		R875	1-249-435-11		33K	5%	1/4W	
R558	1-249-417-11		1K	5%	1/4W		1.0.0	1 210 100 11	011112011		0.0	-,	
R559	1-247-887-00		220K		1/4W		R876	1-249-417-11	CARRON	1K	5%	1/4W	
R560	1-249-417-11		1K	5%	1/4W	(N500)	R878	1-249-423-11		3. 3K		1/4W	
R560	1-249-423-11		3. 3K		1/4W	(N600)	R890	1-249-423-11		3. 3K		1/4W	(N500)
11300	1 243 423 11	OMIDON	J. JI	J/I)	1/411	(11000)	R890	1-249-425-11		4. 7K		1/4W	(N600)
R801	1-249-441-11	CADRON	100K	59	1/4W		R891	1-249-423-11		3. 3K		1/4W	(N500)
R805	1-249-421-11		2. 2K		1/4W		11031	1 243 423 11	UMIDUN	J. JII	J /8	1/411	(11000)
	1-249-421-11		33	5%	1/4W	E	R891	1-249-425-11	CADDON	4. 7K	E0v	1/4W	(N600)
					-	r	R893	1-249-423-11		3. 3K		1/4W	(N500)
R807	1-260-070-11		3. 3	5%	1/2W		R893				5%		
R808	1-215-871-11	METAL UNIDE	2. 2K	3%	1₩			1-249-417-11		1K		1/4W	(N600)
D040	4 040 400 44	G L DD ON	4017	Fo:	4 /4111		R894	1-249-423-11		3. 3K		1/4W	(N500)
R810	1-249-429-11		10K	5%	1/4W		R894	1-249-417-11	CARBON	1K	5%	1/4W	(N600)
R811	1-249-429-11		10K	5%	1/4W	(11000)				~~~~	n	•• .	
R812	1-249-429-11		10K	5%	1/4W	(N600)			< COMPOSITION	CIRCUIT	RFOC	K >	
R813	1-249-429-11		10K	5%	1/4W	(N600)					_		
R814	1-249-429-11	CARBON	10K	5%	1/4W		RB1	1-239-876-11	ENCAPSULATED			CIS/N50	0:AEP2)
R815	1-249-429-11	CARBON	10K	5%	1/4W		RB1	1-239-260-11	ENCAPSULATED	COMPONEN	T		
R816	1-249-441-11	CARBON	100K	5%	1/4W					(G, IT, E	, AUS/	N500:MX	, AR, PX)
R819	1-249-429-11	CARBON	10K	5%	1/4W	(N500)	RB2	1-236-463-11	ENCAPSULATED	COMPONEN	T		
R820	1-249-417-11	CARBON	1K	5%	1/4W					(AEP, U	K, EE,	CIS/N50	0:AEP2)
R821	1-249-417-11		1K	5%	1/4W						·		•
Dooo	1 040 447 44	CADDON	117	C0v	1 /450				< VARIABLE RE	SISTOR >			
R822	1-249-417-11		1K	5%	1/4W		D174	1 000 001 11	DEC ANT CAR	DOM DOM			
R823	1-249-417-11		1K	5%	1/4W		RV1		RES, ADJ, CAR				
R824	1-249-417-11		1K	5%	1/4W		RV2		RES, ADJ, CAR		(010)		
R828	1-249-423-11	CARRON	3. 3K	5%	1/4W		RV101	1-238-601-11	RES, ADJ, CAR	BUN ZZK	(UIS)		

The components identified by mark A or dotted line with mark. A are critical for safety.
Replace only with part number specified.

MAIN PANEL

Ref. No.	Part No.	Description	I	Remark	Ref. No.	Part No.	Description		Re	mark
BV102	1-238-599-11	RES, ADJ, CARBOI	- N 4.7K(CIS)		C708	- ——— 1-164-159-11	CERAMIC	0. 1uF		50V
102	1 200 000 11	1120, 1120, 11110			C709	1-162-286-21	CERAMIC	220PF	10%	50V
		< RELAY >			C710	1-162-286-21		220PF	10%	50V
RV801	1-755-067-11	RFLAV			C711	1-162-286-21	CERAMIC	220PF	10%	50V
111001	1 700 007 11	ILLEINI			C712	1-162-286-21		220PF	10%	50V
		< TERMINAL >			C713	1-162-286-21		220PF	10%	50V
		/ ILIUIIIMAL /			C714	1-162-286-21		220PF	10%	50V
TM1	1_527_400_11	TERMINAL BOARD	(ANT)		C714	1-162-286-21		220PF	10%	50V
11/11	1-337-400-11		JK, G, IT, EE, CIS/N	500:AEP2)	0713	1 102 200 21	CERMITO	2201 F	10/0	301
TM1	1-537-238-21	TERMINAL BOARD	(E, AUS/N500:1	MIX, AR, PX)	C716	1-162-286-21	CERAMIC	220PF	10%	50V
					C717	1-162-286-21	CERAMIC	220PF	10%	50V
		< TEST PIN >			C718	1-162-286-21	CERAMIC	220PF	10%	50V
					C719	1-162-286-21	CERAMIC	220PF	10%	50V
* TP101	1-560-061-00	PIN, CONNECTOR	3P (CIS)		C720	1-162-286-21		220PF	10%	50V
		PIN, CONNECTOR								
		,			C721	1-162-286-21	CERAMIC	220PF	10%	50V
		< VIBRATOR >			C722	1-162-286-21	CERAMIC	220PF	10%	50V
		, , , , , , , , , , , , , , , , , , , ,			C723	1-162-286-21		220PF	10%	50V
X201	1-579-900-21	VIBRATOR, CRYST.	AL (4 332MHz)		C724	1-162-286-21		220PF	10%	50V
71201	1 070 000 21		AEP, UK, G, IT, EE/N	500·AFP2)	C725	1-162-286-21		220PF	10%	50V
		(4		000 min 2)	0120	1 102 200 21	ODICE IN CO.		20.0	
		< VIBRATOR >			C726	1-162-286-21	CERAMIC	220PF	10%	50V
		, , , , , , , , , , , , , , , , , , , ,			C727	1-162-286-21		220PF	10%	50V
XT51	1-760-549-11	VIBRATOR, CRYST.	AI (4 5MHz)		C728	1-162-286-21		220PF	10%	50V
		*******		*****	C729	1-162-286-21		220PF	10%	50V
					C730	1-162-286-21		220PF	10%	50V
*	Δ-4377-261-Δ	PANEL BOARD, CO	MPLETE (N500-AFP	AFP2 IIK)	0700	1 102 200 21	OLIUMIO	22011	10%	001
*		PANEL BOARD, CO			C731	1-162-286-21	CFRAMIC	220PF	10%	50V
		PANEL BOARD, CO		, 1 1/1	C732	1-162-286-21		220PF	10%	50V
•	A 4011 021 A	I ANLE DOMIN, CO	m LLIL (NOOU.LL)		C732	1-162-286-21		220PF	10%	50V
					C734	1-162-286-21		220FF	10%	50V
	A 4077 000 A	PANEL BOARD, CO	MDIETE (NEGO.E M	V AD)	C734	1-162-286-21		220FF	10%	50V
*		PANEL BOARD, CO			0/33	1-102-200-21	CERAMIC	22011	10/0	30 1
*		PANEL BOARD, CO			C736	1-162-286-21	CERAMIC	220PF	10%	50V
*		PANEL BOARD, CO			C737	1-162-286-21		220PF	10%	50V
*		PANEL BOARD, CO.			C738	1-162-286-21		220PF	10%	50V
•	A-4370-423-A	PANEL DUARD, CU	MPLEIE (NOUU: AUS	,	1			220FF	10%	50V
					C739	1-162-286-21		220FF	10%	50V
	A 4077 010 A	DANCI DOADD CO	MDI ETE (NCOO. EE)		C740	1-162-286-21	CERAMIC	220Pf	10%	201
*		PANEL BOARD, CO			07.44	1-162-286-21	CEDAMIC	220PF	10%	50V
*		•	,	`	C741					
*		PANEL BOARD, CO				1-162-286-21		220PF	10%	50V
*	A-4377-928-A	PANEL BOARD, CO			C743	1-162-306-11		0. 01uF	30%	16V
		*****	******	**	C744	1-162-215-31		47PF	5%	50V
					C745	1-162-294-31	CERAMIC	0.001uF	10%	50V
*		CUSHION (FL)				4 400 004	ann illi a	0.001.5	4.00	F077
*	4-969-714-01	HOLDER, FL TUBE			C746	1-162-294-31		0. 001uF	10%	50V
					C747	1-162-294-31		0. 001uF	10%	50V
		< CAPACITOR >			C748	1-126-177-11	ELECT	100uF	20%	10V
					C749	1-162-286-21		220PF	10%	50V
C701	1-124-589-11	ELECT	47uF 20%		C750	1-102-948-00	CERAMIC	11PF	5%	50V
C702	1-161-494-00	CERAMIC	0. 022uF	25V						
C703	1-161-494-00	CERAMIC	0. 022uF	25V	C751	1-102-948-00		11PF	5%	50V
C704	1-126-245-11	ELECT	330uF 20%	6. 3V	C752	1-126-301-11	ELECT	1uF	20%	50V
C705	1-126-245-11	ELECT	330uF 20%	6. 3V	C753	1-126-301-11	ELECT	1uF	20%	50V
					C754	1-124-261-00	ELECT	10uF	20%	50V
C706	1-164-159-11	CERAMIC	0. 1uF	50V	C756	1-161-494-00	CERAMIC	0. 022uF		25V
C707	1-164-159-11		0. 1uF	50V						

PANEL

Ref. No.	Part No.	Descrip	tion	Remark	Ref. No.	Part No.	Description			Remark
		< CONNE	CTOR >		R715	1-249-425-11	CARBON	4. 7K	5%	1/4W
					R716	1-249-429-11		10K	5%	1/4W
* CN701	1-568-858-11	SOCKET	CONNECTOR 15P		R717	1-249-393-11		10	5%	1/4W
			CONNECTOR 15P		R718	1-249-423-11		3. 3K		1/4W
	1-568-852-11				R719	1-247-807-31		100	5%	1/4W
* UN103	1-300-032-11	SUCILI,	(AEP, UK, G, IT, I	CE /NEOO.AED9\	1713	1 247 007 31	UANDUN .	100	J <i>1</i> 0	1/411
. CM702	1 500 050 11	COCKET		EE/NJOU.AEFZ)	D720	1 240 407 11	CADDON	150	E0/	1 //₩
* UN703	1-568-850-11	SUUNEI,		700 MV AD DV)	R720	1-249-407-11		150	5%	1/4W
			(U15, E, AU5/N	500:MX, AR, PX)	R721	1-249-409-11		220	5%	1/4W
					R722	1-249-411-11		330	5%	1/4W
		< DIODE	>		R723	1-249-413-11		470	5%	1/4W
					R724	1-249-415-11	CARBON (680	5%	1/4W
D701	8~719-987-63	DIODE	1N4148M							
D702	8-719-987-63	DIODE	1N4148M		R725	1-249-417-11	CARBON 1	1K	5%	1/4W
D703	8-719-987-63	DIODE	1N4148M		R726	1-249-419-11	CARBON	1.5K	5%	1/4W
D704	8-719-987-63	DIODE	1N4148M		R727	1-249-421-11	CARBON 2	2. 2K	5%	1/4W
			(AEP, UK, EE, AUS/N	N500:AEP2, PX)	R728	1-249-423-11	CARBON	3. 3K	5%	1/4W
D705	8-719-987-63	DIODE	1N4148M		R729	1-249-425-11	CARBON	4. 7K	5%	1/4W
			(G, IT, EE, E, AUS/NS	500:MX, AR, PX)						
			· · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , , ,	R730	1-249-429-11	CARBON	LOK	5%	1/4W
D706	8-719-987-63	DIODE	1N4148M		R731	1-249-433-11		22K	5%	1/4W
D100	0 110 001 00	DIODE	(CIS, E, AUS/NS	SOO MY AR PY)	R732	1-249-423-11		3. 3K		1/4W
D707	8-719-987-63	DIODE	1N4148M (N600/N500:0		R733	1-247-807-31		100	5%	1/4W
D707	8-719-987-63		1N4148M (N000/N300.C	113)	R734	1-249-407-11				
סטזע	0-119-901-03	DIODE	1N4140M		n/34	1-249-407-11	CARDON	150	5%	1/4W
		/ PTI #PI	D \		DEAL	1 040 400 11	ALDDON (200	ro,	4 /400
		< FILTE	1. /		R735	1-249-409-11		220	5%	1/4W
DI 504	4 545 000 44	TUDICAM	OD MUDB DI HODDIGGRUM		R736	1-249-411-11		330	5%	1/4W
FL701	1-517-380-11	INDICATO	OR TUBE, FLUORESCENT		R737	1-249-413-11		170	5%	1/4W
					R738	1-249-415-11		680	5%	1/4W
		< IC >			R739	1-249-417-11	CARBON 1	LK	5%	1/4W
	8-759-327-88		D78044AGF-068-3B9		R740	1-249-419-11		L. 5K		1/4W
IC702	8-741-810-59	IC SB	X1810-59		R741	1-249-421-11		2. 2K		1/4W
					R742	1-249-423-11	CARBON 3	3. 3K	5%	1/4W
		< COIL 3	>		R746	1-249-417-11	CARBON 1	L K	5%	1/4W
					R747	1-249-423-11	CARBON 3	3. 3K	5%	1/4W
L701	1-410-521-11	INDUCTOR	R 100uH							
					R748	1-249-441-11	CARBON 1	00K	5%	1/4W
		< TRANS	ISTOR >		R749	1-249-441-11	CARBON 1	100K	5%	1/4W
					R750	1-249-441-11	CARBON 1	00K	5%	1/4W
Q701	8-729-119-78	TRANSIST	TOR 2SC2785-HFE		R751	1-249-441-11	CARBON 1	.00K	5%	1/4W
Q702	8-729-119-78	TRANSIST	FOR 2SC2785-HFE		R752	1-249-441-11	CARBON 1	.00K	5%	1/4W
Q703	8-729-900-36	TRANSIST	FOR DTC124ES							,
Q704	8-729-900-36				R753	1-249-441-11	CARBON 1	.00K	5%	1/4W
V					R754	1-249-441-11		.00K		1/4W
		< RESIST	ror >		R755	1-249-441-11			5%	1/4W
		\ ILLUIDI	.oit /		R756	1-249-441-11		.00K		1/4W
R701	1-247-807-31	CARRON	100 5%	1/4W	R757	1-249-441-11		.00K		1/4W
R702	1-247-807-31			1/4W	RIJI	1 243 441 11	OARDON I	NUU	J/0	1/411
					D7E0	1 040 441 11	CADDON 1	001/	E0/	1 /400
R703	1-247-807-31			1/4W	R758	1-249-441-11		.00K		1/4W
R704	1-247-807-31			1/4W	R759	1-249-441-11		.00K		1/4W
R709	1-249-417-11	CARBON	1K 5%	1/4W	R761	1-249-417-11				1/4W
					R762	1-249-421-11				1/4W
R710	1-249-417-11			1/4W	R763	1-249-417-11	CARBON 1	.K	5%	1/4W
R711	1-249-433-11			1/4W						
	1-249-433-11			1/4W	R764	1-249-417-11			5%	1/4W
R713	1-249-429-11	CARBON	10K 5%	1/4W	R765	1-249-417-11	CARBON 1	.K	5%	1/4W
R714	1-249-429-11	CARBON	10K 5%	1/4W	R766	1-249-429-11	CARBON 1	.0K	5%	1/4W
					R767	1-249-429-11	CARBON 1	.0K	5%	1/4W

PANEL

	ا			
Ref. No.	Part No.	Description		Remark
R768	1-249-429-11	CARBON	10K 5%	1/4W
R769 R770	1-249-441-11 1-247-887-00	CARBON	100K 5% 220K 5% E, AUS/N500	·
		< COMPOSITION (CIRCUIT BLO	OCK >
RB701	1-232-967-11	COMPOSITION CI	RCUIT BLOC	K
		< SWITCH >		
S701 S702 S703	1-554-303-21	SWITCH, TACTILE SWITCH, TACTILE SWITCH, TACTILE	E (EQ MEMOI	RY)
S704	1-554-303-21	SWITCH, TACTILE	E (ENTER/NI	EXT)
S705	1-554-303-21	SWITCH, TACTILE	E (CURSOR (CONTROL ▽)
S706		SWITCH, TACTILE		
S707		SWITCH, TACTILE		
S708		SWITCH, TACTILE		
S709		SWITCH, TACTILE		
S710	1-554-303-21	SWITCH, TACTILE	E (TUNING	-)
S711	1-554-303-21	SWITCH, TACTILE	E (TUNING I	MODE)
S712	1-554-303-21	SWITCH, TACTILE	E (TUNING)	MEMORY)
S713	1-554-303-21	SWITCH, TACTILE	E (TUNING-	+)
S714	1-554-303-21	SWITCH, TACTILE	E (TUNER/BA	AND)
S715	1-554-303-21	SWITCH, TACTILI		
S716	1-554-303-21	SWITCH, TACTILE	E (JAZZ/3)	
S717	1-554-303-21	SWITCH, TACTILI	E (POPS/2)	
S718	1-554-303-21	SWITCH, TACTILI	E (ROCK/1)	
S719	1-554-303-21	SWITCH, TACTILE	(P-FILE)	
S720	1-554-303-21	SWITCH, TACTILE	E (TIMER S	ET)
S721		SWITCH, TACTILE		ET)
S722	1-554-303-21	SWITCH, TACTILI	E (DAILY)	
S723	1-554-303-21	SWITCH, TACTILI	E (REC)	
S724	1-554-303-21	SWITCH, TACTILI	E (EON)	
			(AEP, UK, G,	IT, EE/N500: AEP2)
S725	1-554-303-21	SWITCH, TACTILE		IT, EE/N500:AEP2)
		< VIBRATOR >	(iiii , oii, u,	11, 11, 11000 11ml 11,
		< VIDRATUR >		
X701 ******		VIBRATOR, CRYS'		·
		MISCELLANEOUS *******		
3	1-769-544-11	WIRE (FLAT TYPE	7) (15 COD	F)
5		WIRE (FLAT TYPE		
5	1-769-547-11	WIRE (FLAT TYPE		S/N500:MX, AR, PX))
c.	1 700 545 11		(AEP, UK, G,	IT, EE/N500: AEP2)

1-769-545-11 WIRE (FLAT TYPE) (15 CORE)

Ref. No.	Part No.	Description	Remark
-	ACCESSOR	IES & PACKING MATERIALS	
	*****	**********	
*	4-973-307-	01 CUSHION (UPPER)	THE WEST IN TO DAY
		. , , , ,	AUS/N500:MX, AR, PX
*	4-973-639-	01 INDIVIDUAL CARTON(N500):AEP, AEP2, UK, G, IT)
*	4-973-639-	11 INDIVIDUAL CARTON (N600): AEP, UK, G, IT)
*	4-973-650-	01 CUSHION (LOWER)	
		(UK, EE, CIS, E, A	AUS/N500:MX, AR, PX)
*	4-973-868-	01 CUSHION (AEP. G. IT/N500:	AEP2)

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

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6

TAN-N500/N600

SERVICE MANUAL



AEP Model UK Model E Model Australian Model TAN-N500/N600 PX Model

Photo: TAN-N600

TAN-N500/N600 are the Amplifier Section in LBT-N500/N550/550K/550P and LBT-N600AV/N650AV.

SPECIFICATIONS

DIN power output

40 W +40 W (6 ohms,

at 1 kHz)

Continuous RMS power output

50 W + 50 W (6 ohms,

at 1 kHz, 5% THD)

Music power output

100 W + 100 W (6 ohms,

at 1 kHz, 10% THD)

Frequency response

15 Hz to 50 kHz ⁺⁰₋₃ dB

Power requirements

European models:

220-230 V AC, 50/60 Hz

Australian model:

220-240 V AC, 50/60 Hz

Malaysian model:

220-240 V AC, 50/60 Hz

Mexican model:

120 V AC, 50/60 Hz

Other models:

110-120 V or 220-240 V AC adjustable, 50/60 Hz

Power consumption

European models:

135 W

Other models:

er mode 195 W

Output	Jack type	Impedance
SURROUND SPEAKER (N500)		Accepts speakers up to 16 ohms
PHONES	Stereophone	Accepts headphones

Weight Approx. 5.4 kg Dimensions

Approx. 355 x 130 x 335 mm (w/h/d, including projections)

of 8 ohms or

more

Design and specifications are subject to change without notice.



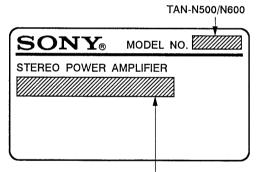
SECTION 1 GENERAL

TABLE OF CONTENTS

Sectio	<u>n</u> <u>Title</u>	<u>Page</u>
Specif	ications · · · · · · · · · · · · · · · · · · ·	· 1
1.	GENERAL	
1-1.	Index to Parts and Controls	2
2.	DISASSEMBLY	. 3
3.	DIAGRAMS	
3-1.	Circuit Boards Location	. 4
3-2.	Schematic Diagram · · · · · · · · · · · · · · · · · · ·	. 6
3-3.	Printed Wiring Boards	. 9
4.	EXPLODED VIEWS	· 15
5.	ELECTRICAL PARTS LIST	. 18

MODEL IDENTIFICATION

- Specification Label Printed on Back Panel -



AEP, German, Italian, East European,

CIS model: AC: 220 V-230 V ~50/60 Hz 135 W

UK model: AC: 220 V-230 V ~50 Hz

Australian,

Malaysia model : AC: 220 V – 240 V \sim 50/60 Hz 195 W

E, Saudi Arabia, Singapore,

PX model: AC: 110 V-120 V/220 V-240 V

~50/60 Hz 195 W

Mexican model: AC: 120 V ~60 Hz 195 W

SAFETY-RELATED COMPONENT WARNING!!

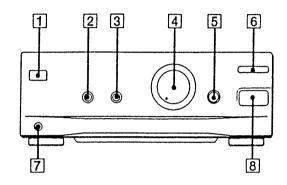
COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

This section is extracted from instruction manual.

1-1. INDEX TO PARTS AND CONTROLS

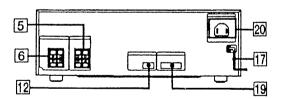
Front Panel

Power Amplifier (TAN-N500/N600)



- 1 SYSTEM POWER switch
- 2 SURROUND button (N500)
- 2 S-SURROUND button (N600)
- 3 DBFB button
- 4 VOLUME control (N500)
- 4 MASTER VOLUME control (N600)
- [5] BALANCE control
- 6 SLEEP button
- 7 PHONES jack
- 8 FUNCTION button

Rear Panel

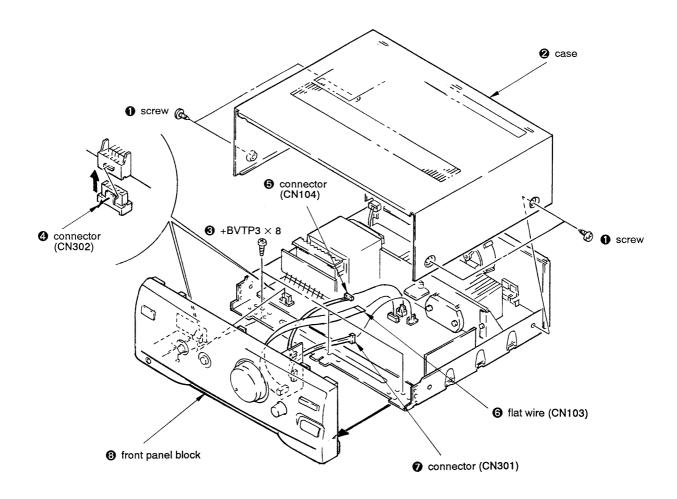


- [5] SPEAKER connectors
- 6 SURROUND SPEAKER connectors (N500)
- 12 SYSTEM CONTROL 4 terminals (N600)
- 17 AC power cord
- 19 SYSTEM CONTROL 2 terminals
- **20** AC OUTLET (N600)

SECTION 2 DISASSEMBLY

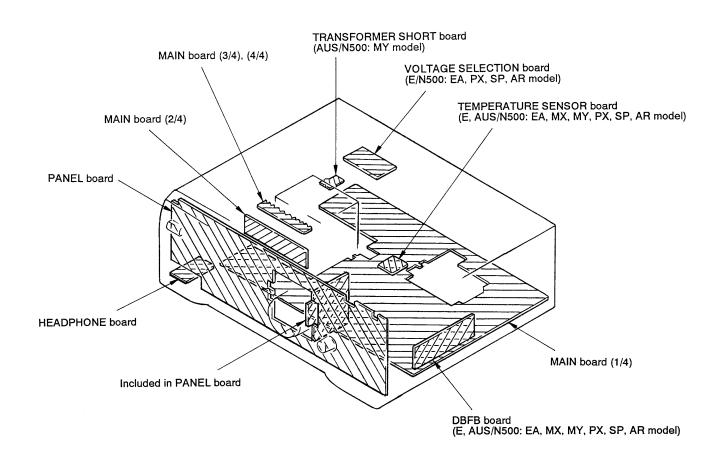
Note: Follow the disassembly procedure in the numerical order given.

FRONT PANEL ASS'Y

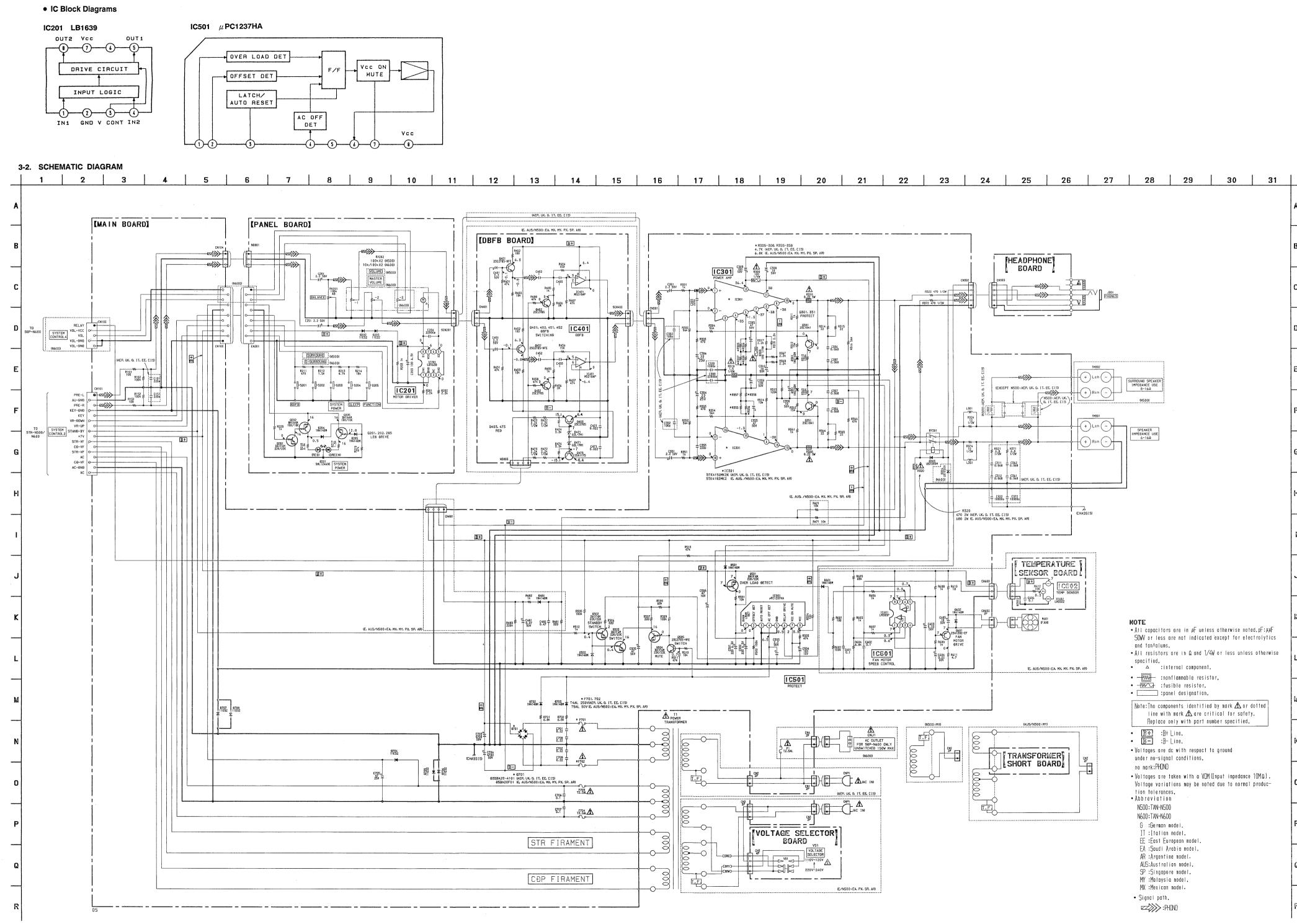


SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



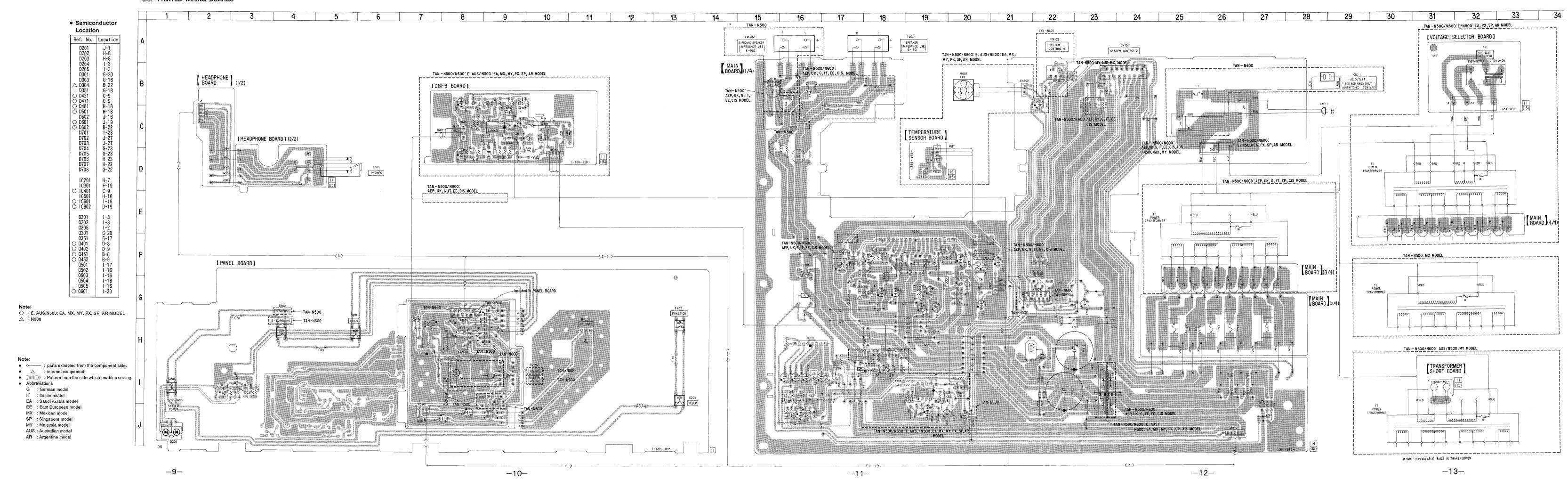
Abbreviation EA : Saudi Abbreviation
EA : Saudi Arabia model
MX : Mexican model
SP : Singapore model
MY : Malaysia model
AUS : Australian model
AR : Argentine model



-7-

-6-

3-3. PRINTED WIRING BOARDS



SECTION 4 EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original
- Color Indication of Appearance Parts Example: KNOB, BALANCE (WHITE) . . . (RED)

Parts Color Cabinet's Color

 Abbreviation
 G : German model
 MX : Mexican model IT: Italian model SP: Singapore model E2: 120 V AC area : Argentine model AEP1, G1, IT1, EE1, CIS1: Model for LBT-N500

• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering

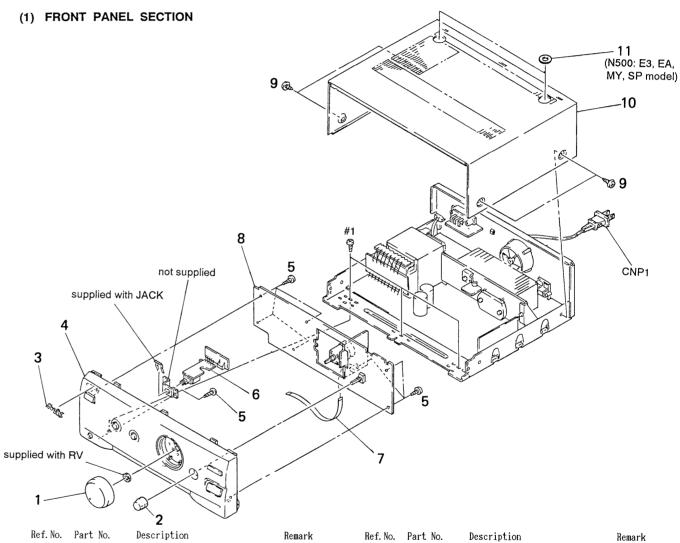
• The mechanical parts with no reference number in the exploded views are not supplied.

Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

The components identified by mark $\underline{\mathbb{A}}$ or dotted line with mark $\underline{\mathbb{A}}$ are critical for safety. Replace only with part number

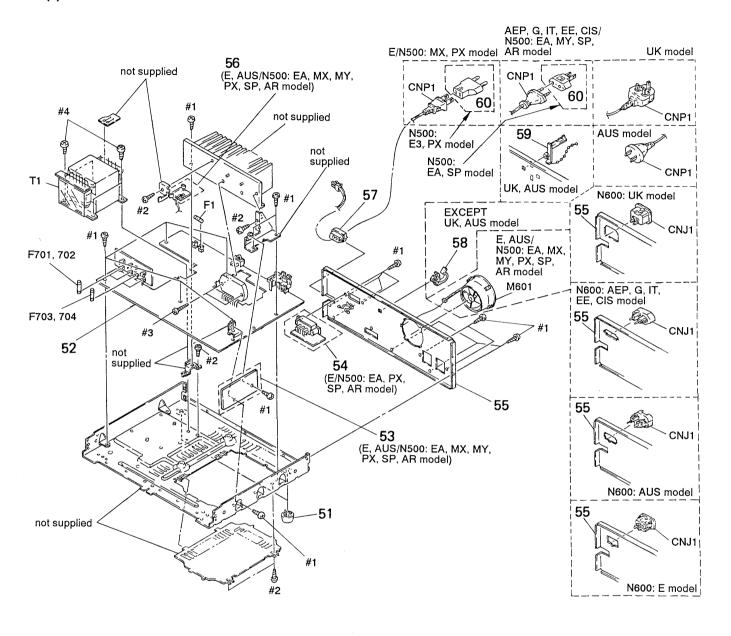
specified.

EA: Saudi Arabia model EE: East Europ MY: Malaysia model AUS: Australian E3: 240 V AC area AEP2, UK2, G2, IT2, CIS2: Model for LBT-N550 EE: East European model AUS: Australian model



Ref. No.	Part No.	2 Description	Remark	Ref. No.	Part No.	Description R	lemark
1	- ——— 4-969-683-1	1 KNOB (V)		* 6	- 	HEADPHONE BOARD	
2	4-962-703-2	22 KNOB (SUR)		7	1-590-218-11	WIRE, FLAT TYPE (11 CORE) (N600)	
3	4-963-404-2	1 EMBLEM (5-A), SONY (EXCEPT N600:AUS, E)	* 7		WIRE, FLAT TYPE (9 CORE) (N500)	
4		1 PANEL ASSY, FRONT		7	1-590-240-31	WIRE, FLAT TYPE (9 CORE) (N500)	
		(N500:A	EP1, G1, IT1, EE1, CIS1)	* 8		PANEL BOARD, COMPLETE (N600)	
4		1 PANEL ASSY, FRONT N500:E2,MX,PX,AR,AUS,A	FP2 11K2 G2 1T2 C1S2)	* 8	A-4377-273-A	PANEL BOARD, COMPLETE (N500: AEP, UK, G, IT,	EE CIG
4		1 PANEL ASSY, FRONT (N		* 8	A-4377-331-A	PANEL BOARD, COMPLETE	LL, UID,
4		1 PANEL ASSY, FRONT	000120, 213, 1111, 517		11 1011 001 11	(N500: E, EA, MX, MY, PX, SP,	AR AUS
		*	AEP, UK, G, IT, EE, CIS)	9	3-363-099-01	SCREW (CASE 3 TP2)	114 (100)
4	X-4946-128-	1 PANEL ASSY, FRONT (NE	600:E, AUS)	10	4-969-778-11	CASE (N600)	
5		1 SCREW (2.6X8), +BVTP		* 10	4-969-778-51	, ,	
				11		STOPPER (N500:E3, EA, MY, SP)	

(2) CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-4941-228-1	FOOT ASSY		* 57	3-703-244-00	BUSHING (2104), CORD	
* 52	A-4377-248-A	MAIN BOARD,	COMPLETE			(AEP, UK, G, IT, EE, CIS, AUS/N500	
			(N600: AEP, UK, G, IT, EE, CIS)	57		BUSHING (S) (4516), CORD (E	/N500:MX, PX)
* 52	A-4377-271-A	MAIN BOARD,		* 58	4-949-235-01		
			(N500: AEP, UK, G, IT, EE, CIS)		((AEP, G, IT, EE, CIS, E/N500:EA, MX	, MY, PX, SP, AR)
* 52	A-4377-274-A	MAIN BOARD,	COMPLETE	59	4-956-370-12	BAND, PLUG FIXED (UK, AUS)	
			(N500: E, EA, PX, SP, AR)				
* 52			COMPLETE (N500:MX, MY, AUS)	1 €60		ADAPTER, CONVERSION 2P (N50	
* 52		,	COMPLETE (N600:AUS)	<u>1</u> 60	1-569-008-11	ADAPTER, CONVERSION 2P (N50	0:EA, SP)
* 52	A-4378-419-A	MAIN BOARD,	COMPLETE (N600:E)				
				<u>∧</u> CNJ1	1-526-751-12	OUTLET, AC (N600:UK)	
* 53	A-4378-331-A	DBFB BOARD,	COMPLETE	<u>∧</u> CNJ1	1-526-794-11	OUTLET, AC (N600:AEP, G, IT, E	E, CIS)
		(E, AUS/N500:EA, MX, MY, PX, SP, AR)	ÆCNJ1	1-526-882-00	OUTLET, AC (N600:E)	
* 54	1-654-891-11	VOLTAGE SEL	ECTION BOARD	<u></u> CNJ1		OUTLET, AC (N600:AUS)	
			(E/N500: EA, PX, SP, AR)	<u></u> CNP1		CORD, POWER (E/N500:MX, PX)	
* 55	4-969-785-01	PANEL, BACK	(N500:AEP, IT)	<u></u> CNP1	1-575-651-21	CORD, POWER	
						(AEP, G, IT, EE, CIS/N500	: EA, MY, SP, AR)
* 55	4-969-785-11	PANEL, BACK	(N500:G)				
* 55		PANEL, BACK	•	⚠CNP1		CORD, POWER (AUS)	
* 55		,	(N500:EE, CIS)	⚠CNP1		CORD, POWER (UK)	
* 55	4-970-164-01	PANEL, BACK	(N500:E, AR)	<u> </u>		FUSE (T2. 5A 250V) (N600)	
				<u>1</u> F701	1-532-299-00) FUSE. (T5A 250V)	, and pag and and
* 55		PANEL, BACK				(E, AUS/N500:EA, MX	, MY, PX, SP, AR)
* 55		PANEL, BACK		A 8804	4 500 050 0	DINGE (MAA OFOLY) (APD LIV O IN	PP GIO)
* 55		PANEL, BACK	•	<u> </u>) FUSE (T4A 250V) (AEP, UK, G, IT	, EE, UIS)
* 55		PANEL, BACK		<u>1</u> 1. F702	1-532-299-00	FUSE (T5A 250V)	MV DV GD AD
* 55	4-970-164-51	PANEL, BACK	(N500:EA, PX)	A P.700	4 500 050 00	(E, AUS/N500: EA, M2	
			(1000 7)	<u> </u>) FUSE (T4A 250V) (AEP, UK, G, IT	, EE, UIS)
* 55		PANEL, BACK		<u></u> 1 1 1 1 1 1 1 1 1 1	1-532-286-00) FUSE (T2. 5A 250V)	
* 55		PANEL, BACK		A P704	1 500 000 00	CHOR (TO EA OFON)	
* 55			(N600:AEP, IT)	<u>↑</u> F704		FUSE (T2. 5A 250V)	
* 55		PANEL, BACK		M601	X-494Z-0Z9	CASE ASSY, FAN	MY DV CD AD
* 55	4-971-710-21	PANEL, BACK	(NOUU:UK)	Δ 17.1	1 407 770 1	(E, AUS/N500:EA, M)	
. ==	4 054 540 0	DANEL DAGE	(Neon EE GIG)	<u>^</u> T1		1 TRANSFORMER, POWER (AEP, UK,	u, 11, EE, U13)
* 55			(N600:EE, CIS)	<u> </u>	1-427-774-1	1 TRANSFORMER, POWER	My by cb Ab)
* 56	1-654-892-12		SENSOR BOARD	A T1	1 497 007 1	(E, AUS/N500:E/	
		. ((E, AUS/N500: EA, MX, MY, PX, SP, AR)	<u> </u>	1-427-907-1	1 TRANSFORMER, POWER (N500:M)	N)

Note: The components identified by mark A or dotted line with mark A are critical for safety.

Replace only with part number specified.

DBFB MAIN

SECTION 5 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS All resistors are in ohms. METAL: Metal-film resistor.

METAL OXIDE: Metal oxide-film resistor.

they are seldom required for routine service. Some delay should be anticipated when ordering these items. SEMICONDUCTORS In each case, $u:\mu$, for example:

• Items marked "*" are not stocked since

 $uA \dots \mu A \dots uPA \dots \mu PA \dots$ uPB..: μ PB.. uPC..: μ PC.. uPD..: μ PD.. CAPACITORS

uF: μF COILS

EE : East European MX : Mexican

E3 : 240V AC area AR : Argentine

Ref. No. Part No. Description Remark R406 1-247-903-00 CARBON 1M 5% 1/4W 1-249-437-11 CARBON 47K 5% 1/4W1-249-437-11 CARBON 47K 5% 1/4W 2. 2K 5% 1/2WR422 1-260-103-11 CARBON 1-260-103-11 CARBON 2. 2K 5% 1/2W R423 R424 1-249-423-11 CARBON 3. 3K 5% 1/4W R451 1-249-437-11 CARBON 47K 5% 1/4W 1-247-807-31 CARBON 100 5% 1/4W R452 R453 1-249-429-11 CARBON 10K 5% 1/4W R454 1-249-407-11 CARBON 150 5% 1/4W R455 1-249-417-11 CARBON 1K 5% 1/4W R456 1-247-903-00 CARBON 1M 5% 1/4W 47K 5% R457 1-249-437-11 CARBON 1/4W R458 1-249-437-11 CARBON 47K 5% 1/4W R472 1-260-103-11 CARBON 2. 2K 5% 1/2W R473 1-260-103-11 CARBON 2. 2K 5% 1/2WR474 1-249-423-11 CARBON 3.3K 5% 1/4W

A-4377-248-A MAIN BOARD, COMPLETE

(N600: AEP, UK, G, IT, EE, CIS)

The components identified by mark \Lambda or dotted line with mark.

A are critical for safety.

When indicating parts by

reference number, please

include the board.

specified.

Replace only with part number

A-4377-271-A MAIN BOARD, COMPLETE

(N500: AEP, UK, G, IT, EE, CIS)

 $A-4377-274-A\ MAIN\ BOARD,\ COMPLETE$

(N500: E, EA, PX, SP, AR)

A-4377-816-A MAIN BOARD, COMPLETE (N500:MX, MY, AUS)

- A-4378-418-A MAIN BOARD, COMPLETE (N600:AUS)
 - A-4378-419-A MAIN BOARD, COMPLETE (N600:E) **********

1-533-217-31 HOLDER, FUSE 1-537-770-11 TERMINAL BOARD, GROUND

< CAPACITOR >

(2101	1-162-286-31	CERAMIC	220PF	10%	50
				(AEP, UK,	G, IT, I	EE, CIS)
(C151	1-162-286-31	CERAMIC	220PF	10%	50V
				(AEP, UK,	G, IT, I	EE, CIS)
(C301	1-124-925-11	ELECT	2. 2uF	20%	100V
(302	1-162-282-31	CERAMIC	100PF	10%	50V
				(AEP, UK,	G, IT, I	EE, CIS)

			IT : Italian		uH: μΗ Saudi Arabia
Ref. No		Singapore M Description	MY : Malaysia		Australian mark
*	A-4378-331-A	DBFB BOARD, O			
			.AUS/N500:EA, MC *********		
		****	******		******
		< CAPACITOR 3	>		
C40	1 1-124-257-00	ELECT	2. 2uF	20%	50V
C40	2 1-136-177-00	FILM	1uF	5%	50V
C40			1uF	5%	50V
C42			0. 022uF		25V
C45	1 1-124-257-00	ELECT	2. 2uF	20%	50V
C45	2 1-136-177-00	FILM	1uF	5%	50V
C45	3 1-136-177-00	FILM	1uF	5%	50V
C47	1 1-161-494-00	CERAMIC	0. 02 2 uF		25V
		< CONNECTOR :	>		
* CN4	01 1-564-506-11	PLUG, CONNEC	TOR 3P		
		< DIODE >			
D42	1 8-719-000-84	DIODE UZL-	7M1		
D47	1 8-719-000-84	DIODE UZL-	7M1		
		< IC >			
IC4	01 8-759-634-51	IC M5218AP			
		< TRANSISTOR	>		
Q40	1 8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q40	2 8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q40	3 8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q45	1 8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q45	2 8-729-119-78	3 TRANSISTOR	2SC2785-HFE		
Q47	3 8-729-119-76	TRANSISTOR	2SA1175-HFE		
		< RESISTOR >			
R40	1 1-249-437-13	CARBON	47K 5%	1/4W	
R40			100 5%	1/4W	
R40	3 1-249-429-13	L CARBON	10K 5%	1/4W	
R40	4 1-249-407-13	L CARBON	150 5%	1/4W	
R40	5 1-249-417-13	L CARBON	1K 5%	1/4W	

Ref. No.	Part No.	Description	on	Re	emark	Ref. No.	Part No.	Descripti	on	Re	mark
C303	1-162-286-31	CERAMIC	220PF	10%	50V	C506 C601	1-104-664-11 1-164-159-11		47uF 0. 1uF	20%	16V 50V
C304	1-126-233-11	ELECT	22uF	20%	50V				(E, AUS/N500:EA, MX	, MY, PX	, SP, AK)
0001	1 120 200 11	22201	2241	20%	001	C602	1-164-159-11	CERAMIC	0. 1uF (E, AUS/N500:EA, MX	MY PX	50V SP AR)
C305	1-124-910-11		47uF	20%	50V	C603	1-124-464-11	ELECT	0. 22uF	20%	50V
C306	1-137-375-11		0. 068uF	5%	50V				(E, AUS/N500: EA, MX		
C307	1-137-375-11		0. 068uF	5%	50V	C604	1-124-464-11	ELECT	0. 22uF	20%	50V
C308	1-124-907-11		10uF	20%	50V				(E, AUS/N500:EA, MX	, MY, PX	, SP, AR)
C309	1-124-122-11	ELECT	100uF	20%	50V	0005	1 104 007 11	PI POT	10 F	000	FOU
C310	1-124-907-11	FIFCT	10uF	20%	50V	C605	1-124-907-11	ELECT	10uF (E, AUS/N500:EA, MX	20%	50V
C311	1-124-307-11				50V 50V	0701	1 120 100 00	EHM			
0311	1-137-373-11	LIEM	0. 068uF	5%		C701	1-136-169-00		0. 22uF	5% 5%	50V
0212	1 197 975 11	EIIM			EE, CIS)	C702	1-136-169-00		0. 22uF	5%	50V
C312	1-137-375-11	r i LM	0.068uF (AFP 11K	5% С ІТ	50V EE, CIS)	C703	1-126-138-11	ELEUI	4700uF	20%	50V
			(nLi, on	, u, 11,	LL, 01D)	C704	1-126-138-11	FLECT	4700uF	20%	50V
C322	1-162-306-11	CERAMIC	0. 01uF	20%	16V	C705	1-124-477-11		47uF	20%	25V
OOLL	1 102 000 11	OLIGINIO	(N500: AEP, UK			C706	1-136-165-00		0. 1uF	5%	50V
C330	1-162-294-31	CERAMIC	0. 001uF	10%	50V	C707	1-136-165-00		0. 1uF	5%	50V
0000	1 102 234 31	OLIMITO			EE, CIS)	C707	1-136-169-00		0. 22uF	5%	50V
C351	1-124-925-11	ELECT	2. 2uF	, u, 11, 20%	100V	0700	1 150 105 00	LITM	o. ZZur	J/0	JU V
****	· ·	22201	2. 2 4.	20.0	1001	C709	1-136-169-00	FILM	0. 22uF	5%	50V
C352	1-162-282-31	CERAMIC	100PF	10%	50V						
			(AEP, UK	, G, IT,	EE, CIS)			< CONNECT	OR >		
C353	1-162-286-31	CERAMIC	220PF	10%	50V						
						CN1			ECTOR (PC BOARD) 2	P	
						CN2	1-564-321-00				
									UK, G, IT, EE, CIS, AUS		
C354	1-126-233-11	ELECT	22uF	20%	50V	* CN2			ECTOR 3P (E/N500:E	A, PX, S	P, AR)
C355	1-124-910-11	EI ECT	47E	200	50V	* CN4	1-564-321-21	PIN, CONN	ECTOR 2P (N600)		
C356	1-124-910-11		47uF 0. 068uF	20%	50V 50V	CN101	1 770 040 01	HOUGING C	ONNECTOR (PC BOARD)	100	
C357	1-137-375-11		0. 068uF	5% 5%	50V 50V	CNIOI	1~770~240-31	HOUSTNG, C			TROL 2)
0337	1-137-373-11	LILM	o. ooour	J/ ₀	307	CN102	1-764-016-21	HOUSING	CONNECTOR (PC BOARD)		IRUL Z)
C358	1-124-907-11	ELECT	10uF	20%	50V	01102	1 101 010 21	noobing,	(SYSTEM CON		(N600)
C359	1-124-122-11		100uF	20%	50V	* CN103	1-568-828-11	SOCKET, CO	ONNECTOR 9P (N500)	11102 1,	(11000)
C361	1-137-375-11		0.068uF	5%	50V						
			(AEP, UK			* CN103	1-568-830-11	SOCKET, CO	ONNECTOR 11P (N600))	
C362	1-137-375-11	FILM	0.068uF	5%	50V		1-506-468-11				
			(AEP, UK	G, IT,	EE, CIS)		1-564-506-11				
						1			BOARD TO BOARD 51	þ	
C372	1-162-306-11	CERAMIC	0. 01uF	20%	16V		1-506-469-11				
			(AEP, UK,	G, IT,	EE, CIS)				(E, AUS/N500: EA, MX,	MY, PX,	SP, AR)
C380	1-161-494-00	CERAMIC	0. 022uF		25V						
			(AEP, UK,		EE, CIS)	CN602	1-564-505-11	PLUG, CON	NECTOR 2P		
C481	1-124-902-00		0. 47uF	20%	50V				(E, AUS/N500:EA, MX,	MY, PX,	SP, AR)
			(E, AUS/N500:EA, MX,	MY, PX	, SP, AR)	CN603	1-506-468-11	PIN, CONNI			
C400	1 100 470 00	EIIM	0.47.5	Γeν	COM				(E, AUS/N500: EA, MX,	MY, PX,	SP, AR)
C482	1-136-173-00		0.47uF	5% MV DV	50V			/ DIODE \			
CED1	1 104 000 14		(E, AUS/N500: EA, MX,					< DIODE >			
C501	1-104-666-11		220uF	20%	6. 3V	5004	0.710.007.00	DIODE ::	144 4014		
C502	1-104-666-11		220uF	20%	6. 3V	D301	8-719-987-63		V4148M		
C503	1-124-925-11	ELECI	2. 2uF	20%	100V	D303	8-719-815-85		81585		
CEO 4	1 104 440 00	PI PAT	100 F	o.ner	1017	D304	8-719-815-85		S1585 (N600)		
C504	1-124-443-00		100uF	20%	10V	D351	8-719-987-63	DIODE 11	V4148M		
C505	1-124-910-11	ELEC I	47uF	20%	50V	!					

Ref. No.	Part No.	Descript	tion	Remark	Ref. No.	Part No.	Description	ı	Remark
D481	8-719-987-63	DIODE	1N4148M		Q502	8-729-900-36	TRANSISTOR	DTC124ES	Marie Control of the
			(E, AUS/N500:EA, MX	X, MY, PX, SP, AR)	Q503	8-729-900-36	TRANSISTOR	DTC124ES	
D501	8-719-987-63	DIODE	1N4148M		Q504	8-729-900-36	TRANSISTOR	DTC124ES	
D502	8-719-987-63		1N4148M		0505	8-729-119-78		2SC2785-HFE	
D601	8-719-987-63	DIODE	1N4148M		Q601	8-729-140-93	TRANSISTOR	2SB733-34	
			(E, AUS/N500:EA, MX	X, MY, PX, SP, AR)			((E, AUS/N500:EA,	MIX, MIY, PX, SP, AR)
D602	8-719-987-63	DIODE	1N4148M						
			(E, AUS/N500:EA, MX	, MY, PX, SP, AR)			< RESISTOR	>	
D701	8-719-028-23	DIODE	D3SBA20-4101		R101	1-247-807-31	CARBON	100 5%	1/4W
			(AEP, UI	K, G, IT, EE, CIS)	R102	1-249-441-11		100K 5%	1/4W
D701	8-719-510-68	DIODE	D5SBA20F01		R151	1-247-807-31		100 5%	1/4W
			(E, AUS/N500:EA, MX	X, MY, PX, SP, AR)	R152	1-249-441-11		100K 5%	1/4W
D702	8-719-987-63	DIODE	1N4148M		R301	1-249-417-11	CARBON	1K 5%	1/4W
D703	8-719-987-63	DIODE	1N4148M		R302	1-249-438-11	CARBON	56K 5%	1/4W
D704	8-719-024-99	DIODE	11ES2-NTA2B		R303	1-249-413-11	CARBON	470 5%	1/4W
D705	8-719-024-99	DIODE	11ES2-NTA2B		R304	1-249-438-11	CARBON	56K 5%	1/4W
D706	8-719-024-99	DIODE	11ES2-NTA2B		R305	1-249-425-11	CARBON	4. 7K 5%	1/4W
D707	8-719-024-99	DIODE	11ES2-NTA2B					(AEP,	UK, G, IT, EE, CIS)
D708	8-719-024-99	DIODE	11ES2-NTA2B		R305	1-249-427-11	CARBON	6.8K 5%	1/4W
							((E, AUS/N500:EA,	MX, MY, PX, SP, AR)
		< FUSE 3	>		R306	1-249-425-11	CARBON	4. 7K 5%	1/4W
								, ,	UK, G, IT, EE, CIS)
▲F1			2. 5A 250V) (N600)		R306	1-249-427-11		6. 8K 5%	1/4W
⚠ F701	1-532-299-00	FUSE (T						(E, AUS/N500:EA,	MIX, MIY, PX, SP, AR)
A E701	1 500 050 00	ruge /m	(E, AUS/N500:EA, M)		D207	1 040 405 11	CADDON	4 7W EW	1 /AW
<u>^</u> F701 <u>^</u> F702	1-532-350-00		4A 250V) (AEP, UK, G, IT	, EE, UIS)	R307	1-249-425-11	CARBON	4. 7K 5%	1/4W UK, G, IT, EE, CIS)
<u>∕1\</u> r /UZ	1-332-299-00	ruse (1:	(E, AUS/N500:EA, M)	/ MA DA GD VD/	R307	1-249-427-11	CARRON	6. 8K 5%	1/4W
			(E, AOS/ 1100 . EA, 111	, m1, 1 A, OI , AII/	11307	1 243 427 11			MX, MY, PX, SP, AR)
Æ F702	1-532-350-00	FUSE (T	4A 250V) (AEP, UK, G, I1	r, EE, CIS)	R308	1-249-425-11		4. 7K 5%	1/4W
<u> </u>	1-532-286-00			,,					UK, G, IT, EE, CIS)
<u> 1</u> F704	1-532-286-00	FUSE (T	2. 5A 250V)						
					R308	1-249-427-11	CARBON	6.8K 5%	1/4W
		< IC >						(E, AUS/N500:EA,	MX, MY, PX, SP, AR)
					<u></u> 1 1 1 1 1 1 1 1 1 1	1-212-881-11	FUSIBLE	100 5%	1/4W F
	8-749-920-09		K-4152MK2K (AEP, UK, 0	G, IT, EE, CIS)	<u></u> ∧ R310	1-217-156-00		0. 22 10%	
IC301	8-749-900-34	IC ST	K-4182MK2		R311	1-249-417-11	CARBON	1K 5%	1/4W
*****			(E, AUS/N500:EA, M	K, MY, PX, SP, AR)	2010		a.ppa.		
	8-759-111-68		C1237HA		R312	1-249-431-11		15K 5%	1/4W
IC601	8-759-103-93	IC uP	C393C	. M. D. GD +D)	R313	1-249-441-11		100K 5%	1/4W
			(E, AUS/N500:EA, M2	K, MY, PX, SP, AR)	R314	1-249-397-11		22 5%	1/4W
		/ 00II			R315	1-249-397-11		22 5%	1/4W
		< COIL :	>		R316	1-249-438-11	CARBUN	56K 5%	1/4W
L301	1-420-872-00	COIL, A	IR-CORE		R317	1-249-421-11	CARBON	2. 2K 5%	1/4W
L302	1-420-872-00	COIL, A	IR-CORE (N500:AEP, UI	K, G, IT, EE, CIS)	R318	1-249-421-11	CARBON	2. 2K 5%	1/4W
L351	1-420-872-00	COIL, A	IR-CORE		<u></u>	1-249-383-11	CARBON	1.5 5%	1/6W F
L352	1-420-872-00	COIL, A	IR-CORE (N500:AEP, U	K, G, IT, EE, CIS)	<u></u>	1-215-890-11	METAL OXID	E 470 5%	2W F
			Taman)					(AEP,	UK, G, IT, EE, CIS)
		< TRANS	ISTOR >		A D000	1 015 004 44	METAL OVEN	E 600 50	ow r
0201	8-729-140-84	TDANCIC	TOD 9001041_DAEAE		<u></u>	1-215-891-11			2W F MX, MY, PX, SP, AR)
Q301 Q351	8-729-140-84				R321	1-260-074-11		6. 8 5%	
Q501	8-729-900-63			1	11321	1 200 074-11	OMIDUN		UK, G, IT, EE, CIS)
door.	5 .20 000 00	***************************************	PIMEWILD		·			(1161)	, _,,,,,
					1			1 .	

The components identified by mark \triangle or dotted line with mark. \triangle are critical for safety.
Replace only with part number specified.

MAIN

											L
Ref. No.	Part No.	Descripti	ıon		Remark	Ref. No.	Part No.	Description	1		Remark
R322	1-260-095-11	CARBON	470 5	5% 1,		R504	1-249-430-11		 12K	5%	1/4W
D224	1 900 070 11	CADDON	10 E	-0v 1	/OU	R505	1-249-441-11	CARBON	100K	5%	1/4W
R324	1-260-076-11				/2W	DEOC	1 040 414 14	GIDDON	000		4 /400
R351	1-249-417-11				/4W	R506	1-249-411-11		330	5%	1/4W
R352	1-249-438-11				/4W	R507	1-249-411-11		330	5%	1/4W
R353	1-249-413-11				/4W	R508	1-249-439-11		68K	5%	1/4W
R354	1-249-438-11	CARBON	56K 5	5% 1,	/4W	R509	1-249-441-11		100K	5%	1/4W
						R510	1-249-429-11	CARBON	10K	5%	1/4W
R355	1-249-425-11	CARBON	4. 7K 5		/4W						
					, IT, EE, CIS)	R511	1-249-437-11		47K	5%	1/4W
R355	1-249-427-11	CARBON	6. 8K 5	. ,	/4W	R512	1-249-417-11	CARBON	1K	5%	1/4W
			(E, AUS/N500:E	A, MX, M	Y, PX, SP, AR)	R513	1-249-437-11	CARBON	47K	5%	1/4W
R356	1-249-425-11	CARBON	4.7K 5	i% 1,	/4W	R514	1-249-429-11	CARBON	10K	5%	1/4W
			(AE	P, UK, G,	IT, EE, CIS)	R515	1-247-881-00	CARBON	120K	5%	1/4W
R356	1-249-427-11	CARBON	6.8K 5	% 1,	/4W	R601	1-247-807-31	CARBON	100	5%	1/4W
			(E, AUS/N500:E	A, MX, MY	Y, PX, SP, AR)			(E, AUS/N500:	EA, MX,	MY, PX, SP, AR)
R357	1-249-425-11	CARBON	4. 7K 5	% 1,	/4W	R602	1-249-441-11	CARBON	100K	5%	1/4W
			(AE	P, UK, G,	IT, EE, CIS)			(E, AUS/N500:	EA, MX,	MY, PX, SP, AR)
R357	1-249-427-11	CARBON	6. 8K 5		/4W	R603	1-249-417-11		1K	5%	1/4W
			(E, AUS/N500:E	A, MX, M	(, PX, SP, AR)						MY, PX, SP, AR)
								`	-,,	,,	,,,
R358	1-249-425-11	CARBON	4. 7K 59	% 1/	/4W	R604	1-249-427-11	CARBON	6. 8K	5%	1/4W
			(AE)		IT, EE, CIS)						MY, PX, SP, AR)
R358	1-249-427-11	CARBON	6. 8K 59		/4W	R605	1-249-439-11			5%	1/4W
		011110	(E, AUS/N500: E			11000	1 210 100 11				MY, PX, SP, AR)
<u></u> R359	1-212-881-11	FUSTRLE	100 59		/4W F	R606	1-249-417-11		1K	5%	1/4W
7			100 07	.0 1/	*" *	11000	1 213 117 11				MY, PX, SP, AR)
<u></u> 1 R360	1-217-156-00	WIRFWOUND	0. 22 10	0% 5W	v f			(L, nob/ Nobb.	LA, 1141,	mi, i A, Si , Ait/
R361	1-249-417-11		1K 59		/4W	R607	1-249-417-11	CADRON	1K	5%	1/4W
R362	1-249-431-11		15K 59		/4W	11007	1 243 417 11				MY, PX, SP, AR)
R363	1-249-441-11		100K 59		/4W	R608	1-249-417-11		E, AUS/RSUU. 1K	5%	1/4W
R364	1-249-397-11		22 59		/4W	11000	1 243 417 11				MY, PX, SP, AR)
11001	1 240 007 11	OMIDON	LL JA	<i>N</i> 0 1/	411	R609	1 940 417 11				
R365	1-249-397-11	CADRON	22 5%	0/ 1 /	/4W	ROUS	1-249-417-11			5%	1/4W
R366	1-249-337-11				1			(1	E, AUS/NOUU:	EA, MX,	MY, PX, SP, AR)
				,	/4W	DC10	1 040 000 11	CARRION	40	50 /	4 /400
R367	1-249-421-11		2. 2K 5%		/4W	R610	1-249-396-11			5%	1/4W
R368	1-249-421-11		2. 2K 5%		∕4₩	D044	4 040 000 44				MY, PX, SP, AR)
R371	1-260-074-11	CARBON	6. 8 5%		′2W	R611	1-249-389-11				1/4W
			(Atl	P, UK, G,	IT, EE, CIS)						MY, PX, SP, AR)
2020		a				R701	1-249-427-11	CARBON	6. 8K	5%	1/4W
R372	1-260-095-11		470 5%		′2₩						
R374	1-260-076-11		10 5%		′2W	R702	1-249-427-11	CARBON	6.8K	5%	1/4W
R421	1-249-429-11	CARBON	10K 5%		′4W						
			(E, AUS/N500:EA	A, MX, MY	, PX, SP, AR)			< RELAY >			
R471	1-249-429-11	CARBON	10K 5%	¥ 1/	4W						
			(E, AUS/N500:EA	A, MX, MY	, PX, SP, AR)	RY301	1-515-920-11	RELAY (24V)			
R481	1-249-411-11	CARBON	330 5%	1/	4W			< TRANSFORME	ER >		
			(E, AUS/N500:EA	A, MX, MY	, PX, SP, AR)						
R482	1-249-417-11	CARBON	1K 5%	1/	4W	<u> </u>	1-427-773-11	TRANSFORMER,	POWER (AE	P, UK, G	, IT, EE, CIS)
			(E, AUS/N500:EA	A, MX, MY	, PX, SP, AR)	<u></u> ⚠ T1	1-427-774-11				
R483	1-247-887-00	CARBON	220K 5%	6 1/	4W					00:EA.	MY, PX, SP, AR)
			(E, AUS/N500: EA	A, MX, MY	, PX, SP, AR)	 ∆T1	1-427-907-11	TRANSFORMER.			
									(-10		
R501	1-249-429-11	CARBON	10K 5%	1/	4W						
R502	1-249-441-11		100K 5%								
R503	1-249-437-11		47K 5%		1						
				-1	1						

The components identified by mark $ilde{\Lambda}$ or dotted line with mark. $ilde{\Lambda}$ are critical for safety. Replace only with part number specified.

MAIN PANEL HEADPHONE TEMPERATURE SENSOR

VOLTAGE SELECTION

Ref. No.	Part No.	Description		Ren	ark	Ref. No.	Part No.	Description		Remark
		< TERMINAL >				R218 R219	1-249-423-11 1-249-437-11		3. 3K 5% 47K 5%	1/4W 1/4W
TM301	1-537-842-11	TERMINAL BOARD		e in c	E GIG)	R220	1-249-417-11	CADDON	1K 5%	1/4W
TM301	1-537-240-11	TERMINAL BOARD		, ,	ER)	R220	1-249-417-11	< VARIABLE RESI		1/4#
TM302	1-537-240-11	TERMINAL BOARD		l)		PV201	1_223_847_11	RES, VAR, CARBO		ANCE)
******	******	******						RES, VAR, CARBO	N 10K/100KX	•
*	A-4377-331-A	PANEL BOARD, CO	MPLETE : E, EA, MX, MY,	PX SP A	R AUS)	RV202	1-223-844-11	RES, VAR, CARBO		
*	A-4377-273-A	PANEL BOARD, CO						< SWITCH >		
*	A-4377-249-A	PANEL BOARD, CO	MPLETE (N600))		S201 S202 S202	1-554-303-21 1-554-303-21	SWITCH, TACTILE SWITCH, TACTILE SWITCH, TACTILE	(SURROUND) (S-SURROUNI	O) (N600)
		< CAPACITOR >						SWITCH, TACTILE SWITCH, TACTILE		VER)
C201	1-124-925-11		2. 2uF	20%	100V	S205	1-554-303-21	SWITCH, TACTILE	(FUNCTION)	
C203 C204	1-124-443-00 1-161-494-00		100uF 0. 022uF	20%	10V 25V	******	*****	*******	*******	******
C251	1-124-925-11	ELECT	2. 2uF	20%	100V	*	1-654-890-11	HEADPHONE BOARD		
		< connector >						< CONNECTOR >		
		SOCKET, CONNECT SOCKET, CONNECT				CN303	1-770-593-41	CONNECTOR, BOAF	RD TO BOARD	5P
		< DIODE >						< JACK >		
D201 D202	8-719-045-39 8-719-024-99	DIODE 11ES2-N		1 POWER)				JACK, LARGE TYF		******
D203 D204 D205	8-719-024-99 8-719-987-63 8-719-987-63	DIODE 1N4148M	I			*	1-654-892-12		JS/N500:EA, M	X, MY, PX, SP, AR)
		< IC >						**************************************	*******	******
IC201	8-759-820-62	IC LB1639				denc	1 104 150 11		0. 1E	EOV
		< TRANSISTOR >				C606	1-164-159-11		0. 1uF	50V
Q201	8-729-900-36		C124ES			10000	0 750 047 24	< IC >		
Q202 Q205	8-729-422-57 8-729-422-57		(4111 (4111			10002	8-759-947-34			
		< RESISTOR >				Posto	4 045 005 04	< RESISTOR >	100 FW	1 /450
R201	1-249-421-11	CARBON	2. 2K 5%	1/4W		R612	1-247-807-31 ******	*************	100 5% *******	1/4W ******
R202	1-249-421-11		2. 2K 5%	1/4W			1 054 001 11	VOLTACE CELECT	TON DOADD	
R203 R211	1-249-417-11 1-249-413-11		1K 5% 470 5%	1/4W 1/4W		*	1-004-891-11	VOLTAGE SELECT		0:EA, PX, SP, AR)
R212	1-249-419-11		1.5K 5%	1/4W				*****	******	******
R213	1-249-425-11		4.7K 5%	1/4W				< CAPACITOR >		
R214 R217	1-249-432-11 1-249-419-11		18K 5% 1.5K 5%	1/4W 1/4W		CN3	1-568-106-11	PIN, CONNECTOR	4P	

Ref. No.	Part No.	Description	Remark
		< VOLTAGE SELECTOR >	
<u>∧</u> VS1	1-762-298-11	SW, AC POWER VOLTAGE SELECTOR	E SELECTOR)
******	******	*********	
		MISCELLANEOUS	

7	1-590-218-11	WIRE, FLAT TYPE (11 CORE) (N60	00)
* 7		WIRE, FLAT TYPE (9 CORE) (N500	
7		WIRE, FLAT TYPE (9 CORE) (N500	
$\triangle 60$		ADAPTER, CONVERSION 2P (N500:	
№ 60	1-569-008-11	ADAPTER, CONVERSION 2P (N500:	EA, SP)
⚠CNJ1	1-526-751-12	OUTLET, AC (N600:UK)	
 CNJ1	1-526-794-11	OUTLET, AC (N600: AEP, G, IT, EE,	CIS)
∆ CNJ1		OUTLET, AC (N600:E)	
∆ CNJ1		OUTLET, AC (N600:AUS)	
ÆCNP1	1-558-943-41	CORD, POWER (E/N500:MX, PX)	
<u>∧</u> CNP1	1-575-651-21	CORD, POWER (AEP, G, IT, EE, CIS/N500: EA,	MY, SP, AR)
 CNP1	1-696-845-11	CORD, POWER (AUS)	
⚠CNP1	1-751-529-11	CORD, POWER (UK)	
∕ î \F1	1-532-286-00	FUSE (T2. 5A 250V) (N600)	
<u> </u>	1-532-299-00	FUSE (T5A 250V)	
		(E, AUS/N500: EA, MX, MY,	PX, SP, AR)
♠ F701	1-532-350-00	FUSE (T4A 250V) (AEP, UK, G, IT, E	E, CIS)
<u>1</u> F702	1-532-299-00	FUSE (T5A 250V)	
		(E, AUS/N500:EA, MX, MY,	PX, SP, AR)
<u></u> 1. F702	1-532-350-00	FUSE (T4A 250V) (AEP, UK, G, IT, E	E, CIS)
<u></u> 1€F703	1-532-286-00	FUSE (T2. 5A 250V)	
<u></u> 1₹704	1-532-286-00	FUSE (T2. 5A 250V)	
<u>^</u> T1		TRANSFORMER, POWER (AEP, UK, G,	IT, EE, CIS)
<u> </u>	1-427-774-11	TRANSFORMER, POWER	
		(E, AUS/N500: EA, MY,	PX, SP, AR)
<u></u> ⚠ T1	1-427-907-11	TRANSFORMER, POWER (N500:MX)	
******	******	**********	******
	***	******	
		ARDWARE LIST	
	***	*******	
#1	7-685-646-	79 SCREW +BVTP 3X8 TYPE2 N-S	

#1 7-685-646-79 SCREW +BVTP 3X8 TYPE2 N-S #2 7-685-645-79 SCREW +BVTP 3X6 TYPE2 N-S #3 7-685-650-79 SCREW +BVTP 3X16 TYPE2 N-S #4 7-682-560-04 SCREW +BVTT 4X6 (S)

The components identified by mark \triangle or dotted line with mark. \triangle are critical for safety.
Replace only with part number specified.

TAN-N500/N600

TC-N500

SERVICE MANUAL



AEP Model UK Model E Model Australian Model PX Model

TC-N500 are the Stereo Cassette Deck section in LBT-N500/N550/N550K/N550P and LBT-N600AV/N650AV.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol 🔲 are trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Sin	HCD-A390	
Tape Transport	DECK A: TCM-	190RA12AL
Mechanism Type	DECK B: TCM-	190RB53A

SPECIFICATIONS

Recording system

4-track 2-channel stereo

Frequency response

DOLBY NR OFF

With Sony Type II cassette 40 Hz to 14 kHz (±3dB) With Sony Type I cassette 40 Hz to 13 kHz (±3dB)

Wow and flutter

0.1% (W.RMS)

±0.2% (W.Peak)

Weight

Approx. 3.3 kg

Dimensions

Approx. 355 x 130 x 310 mm (w/h/d, including projections)

Design and specifications are subject to change without notice.

STEREO CASSETTE DECK

SECTION 1 GENERAL

TABLE OF CONTENTS

Sectio	<u>n</u> <u>Title</u>	<u>Pa</u>	ge
	fications		1 2
1.	GENERAL		2
2.	DISASSEMBLY		3
3.	MECHANICAL ADJUSTMENTS		4
4.	ELECTRICAL ADJUSTMENTS		4
5.	DIAGRAMS		
5-1.	IC Pin Function Description		7
5-2.	Block Diagram · · · · · · · · · · · · · · · · · · ·		9
5-3.	Printed Wiring Boards · · · · · · · · · · · · · · · · · · ·		12
5-4.		• •	17
6.	EXPLODED VIEWS		21
7.	ELECTRICAL PARTS LIST		25

SERVICING NOTES

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

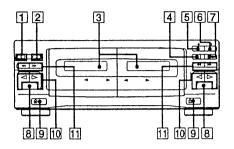
Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Power Supply Used Servicing

This Unit does not have its own power supply. As it works on the power supplied from the amplifier (STR-N500/N600) used for this series, connect this amplifier when servicing the unit (conduction repair, etc.).

This section is extracted from LBT-N500 instruction manual.



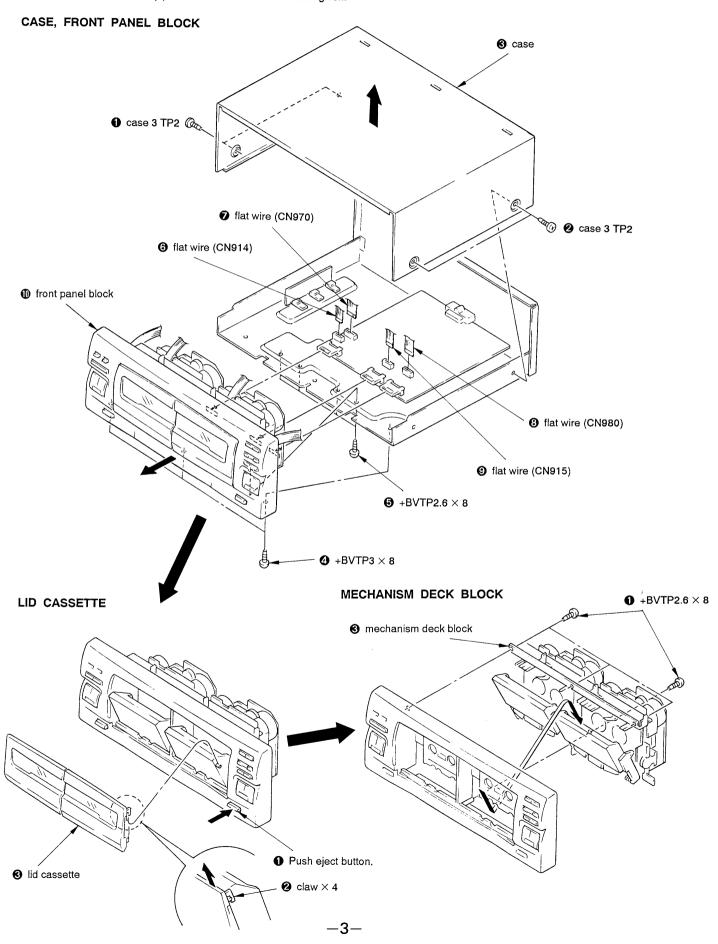
- 1 DOLBY NR switch (16)
- 2 DIRECTION MODE selector (16)
- 3 Cassette compartments (16)
- 4 II PAUSE button (16)
- 5 HI-SPEED DUBBING button (20)
- 6 CD SYNCRO button (17, 19)
- 7 REC button (17)
- **8** (stop) buttons (16)
- 9 EJECT buttons (16)
- (front side play)
 - ⟨reverse side play⟩ buttons (16, 17)
- 11 (fast leftward) AMS
 - ►► (fast rightward) AMS buttons (16)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.



SECTION 3 MECHANICAL ADJUSTMENTS

PRECAUTIONS:

Clean the following parts with a denatured-alcoholmoistened swab:
 record/playback head pinch roller

record/playback head pinch roller rubber belts capstan idler

- 2. Demagnetize the record/playback head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adjustment.
- After the adjustment, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

Mode	Torque meter	ı	Meter reading
FWD		(0.4	30 to 65 g•cm 42 to 0.90 oz•inch)
FWD	CQ-102C	DECK A	1 to 6 g*cm (0.014 to 0.08 oz*inch)
Back tension		DECK B	2 to 9 g*cm (0.028 to 0.124 oz*inch)
REV	CO 103DC	(0.4	30 to 65 g•cm 42 to 0.90 oz•inch)
REV Back tension	CQ-102RC	(0.0	1 to 6 g•cm 114 to 0.08 oz•inch)
FF, REW	CQ-201B		70 to 120 g•cm 98 to 1.66 oz•inch)

SECTION 4 ELECTRICAL ADJUSTMENTS

- 1. The adjustment should be performed in the publication. (Be sure to make playback adjustment at first.)
- The adjustment and measurement should be performed for both L-CH and R-CH.
 - Switche position
 DOLBY NR switch : OFF

• Test Tape

Tape	Contents	Used for
P-4-A100	10 kHz, - 10 dB	Head Azimuth Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment

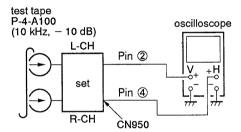
0 dB = 0.775 V

Record/Playback Head Azimuth Adjustment DECK A

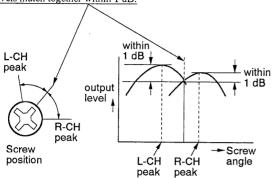
DECK A

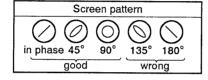
Procedure:

1. FWD/REV: Playback Mode



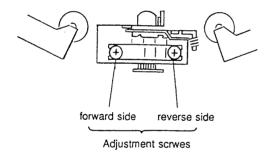
Turn the adjustment screw for the maximum output levels. If these
levels do not match, turn the adjustment screw until both of output
levels match together within 1 dB.





- 3. Change the REV playback mode and repeat the step 1 to 2.
- After the adjustments, lock the adjustment screw with suitable locking compound.

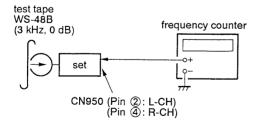
Adjustment Location:



Tape Speed Adjustment DECK A DECK B

Procedure:

 Perform high speed adjustment before normal speed adjustment. Mode: playback



(High Speed Adjustment)

- 1. Short-circuit CN902 (TC board) when the power off.
- Turn on the power, press the DUB switch, and set high speed playback.
- 3. Set decks A and B into the FWD mode.
- Adjust deck A: RV72A (H) and deck B: RV72B (H) so that the reading of the frequency counter becomes the adjustment value.
- After adjusting, short-circuit CN902.

(Normal Speed Adjustment)

- 1. Set the FWD playback mode.
- Adjust deck A: RV71A (N), deck B: RV71B (N) so that the reading of the frequency counter becomes the adjustment value.

Adjustment Values:

High Speed	6,000 ± 20 Hz
Normal Speed	3,000 ± 10 Hz

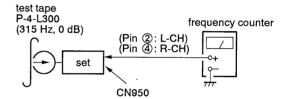
Adjust so that the difference between tape top and tape end is within 3%. Adjust so that the deviation between the speeds of deck A and deck B at the tape top is within 1.0%.

Adjustment Location: AUDIO (A), (B) boards

Playback Level Adjustment DECK A DECK B

Procedure:

Mode: playback



Adjust deck A: RV11A (L-CH) and RV21A (R-CH), deck B: RV11B (L-CH) and RV21B (R-CH) so that within the adjustment values specified. The output level is within the adjustment values specified.

Adjustable Level:

CN950 level: -7.7 dB \pm 0.5 dB (0.30 to 0.34 V) Level Difference between Channels: within 1.0 dB

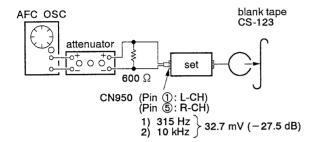
Confirm the level does not change in playback mode while changing the mode from playback to stop several time.

Adjustment Location: AUDIO (A), (B) boards

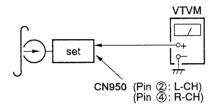
Record BIAS Adjustment DECK B

Procedure:

1. Mode: record



Mode: playback



Confirm playback the signal recorded in step 1 become adjustment level as follows.

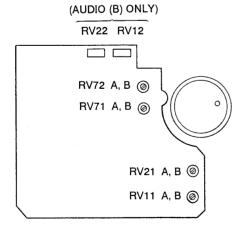
If these levels do not adjustment level, adjust the RV12 (L-CH) and RV22 (R-CH) to repeat step 1 and 2.

Adjustment Level: Playback output of 10 kHz to playback output of 315 Hz: \pm 0.5 dB.

Adjustment Location: AUDIO (B) board

Adjusting Parts Location:

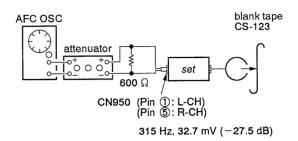
[AUDIO (A), AUDIO (B) Board] - Conductor Side -



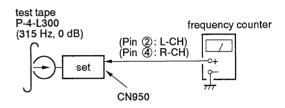
Record Level Adjustments DECK B

Procedure:

1. Mode: record



2. Mode: playback



Confirm playback the signal recorded in step 1 become adjustment level as follows

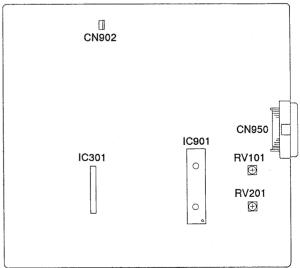
If these levels do not adjustment level, adjust the RV101 (L-CH) and RV201 (R-CH) to repeat step 1 and 2.

Adjustment Level:

CN950 PB level: $-27.5 \text{ dB} \pm 0.5 \text{ dB}$ (31 to 35 mV).

Adjustment Location: MAIN board

[MAIN Board] - Component Side -



SECTION 5 DIAGRAMS

5-1. IC PIN FUNCTION DESCRIPTION MAIN BOARD IC901 M50964-261FP (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Function
1	G	-	
2	G	_	GND
3	G	_]]
4	_	_	+5V
5	NORM/HIGH	-	Tape speed "H"=High speed "L"=Normal speed
			Deck B record prevention claw A, B detection input (Analog)
			Voltage (V) 1V 1.9V 2.8V 3.9V 5V
6	B HALF	I	Half ON ON ON OFF
			E. PROOF A OFF ON OFF ON OFF
			E. PROOF B ON ON OFF OFF
7	KEY Y	ı	KEY input
	KEII	'	Voltage (V) 0 0.3 0.7 1.2 1.7 2.3 2.8 3.4 4.0 4.5 5.0
8	KEY X	I	KEYY B ■ B ■ B ■ B ■ A ← A → RELAY OFF
°	KEIX	1	KEY X A ■ A ► A ► B ← B → DUB CD
9	AMS IN	I	AMS signal input
10	LM ON/OFF	0	Line mute output
11	RM ON/OFF	0	Mute output
12	RELAY ON/OFF	0	REC/PB change relay output
13	REC/PB	0	Dolby IC REC/PB select output
14	EQ70	0	Playback EQ output for playing deck (Not used)
15	SEL A/B	0	Dolby IC PB input Deck A/B select output
16	AMS MUTE	0	AMS mute output
17	AU BUS	I	AUDIO BUS input
18	BIAS ON/OFF	0	Bias oscillation output
19	AUB OUT	0	AUDIO BUS output
20	A BUS	I	AUDIO BUS normal input
21	NC	-	Not used
22	NC	_	
23	NC	_	GND
24	Vss	_	J
25	RESET	I	Microcomputer reset input
26	XIN	I	Clock input (4 MHz)
27	XOUT	0	Clock output (4 MHz)
28	φ	0	Not used (open)
29	Vss	-	CND
30	PW IN	i	} GND
31	A STOP	I	Deck A STOP switch input
32	A HALF	I	Deck A Half switch input
33	A SHUT	I	Deck A Reel table signal input
34	A70 U	I	GND
35	B STOP	I	Deck B STOP switch input

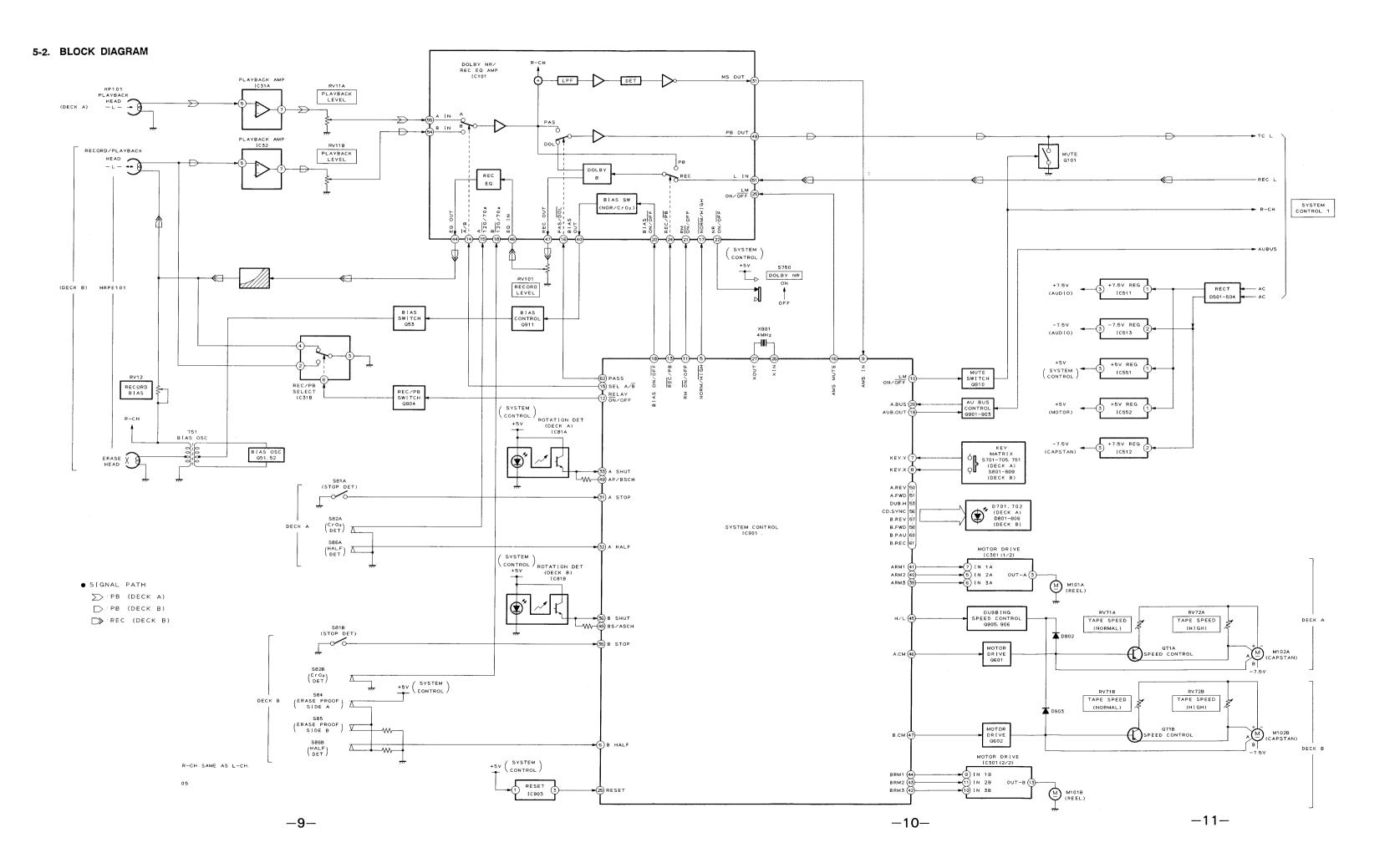
Pin No.	Pin Name	I/O	Function
36	B SHUT	I	Deck B Reel table signal input
37	B70 U	I	+5V
38	NC	_	Not used
39	ARM 3	0	
40	ARM 2	0	Deck A Reel Motor control out
41	ARM 1	0	J
42	BRM 3	0	
43	BRM 2	0	Deck B Reel Motor control out
44	BRM 1	0	J
45	H/L	0	Capstan motor speed select
46	A CM	0	A Capstan motor ON/OFF
47	ВСМ	0	B Capstan motor ON/OFF
48	BS/ASCH	I	Deck B Reel table/BS signal input
49	AP/BSCH	I	Deck A Reel table/AP signal input
50	A REV	0	Deck A RVS LED output
51	A FWD	0	Deck A FWD LED output
52	A PLAY	0	Deck B RVS/FWD LED control output (Not used)
53	DUB H	0	High Speed Dubbing LED output
54	DUB N	0	Normal Speed Dubbing LED output (Not used)
55	NC	-	Not used
56	CD SYNC	0	Auto CD Synchro LED output
57	B REV	0	Deck B RVS LED output
58	B FWD	0	Deck B FWD LED output
59	B PLAY	0	Deck B RVS/FWD LED control output (Not used)
60	B PAUSE	0	Deck B PAUSE LED output
61	B REC	0	Deck B REC LED output
62	PASS	0	PASS amplifier switch output
63	TEST	I	Electrical adjustment test mode setting
64	NC	-	+5 V
65	Vss	-	GND
66	NC	_	Not used
67	Vcc		POWER 5 ± 0.5V
68	AVss	-	Analog system GND
69	VREF	I	Analog system reference voltage input
70	DAC	-)
71		—	GND
72	_	<u> </u>	

[TEST MODE]

When making pin (3) low (connect pin (1) of CN902 to ground with jumper wire), following function operates.

1. Source monitor

Release the line mute while recording.



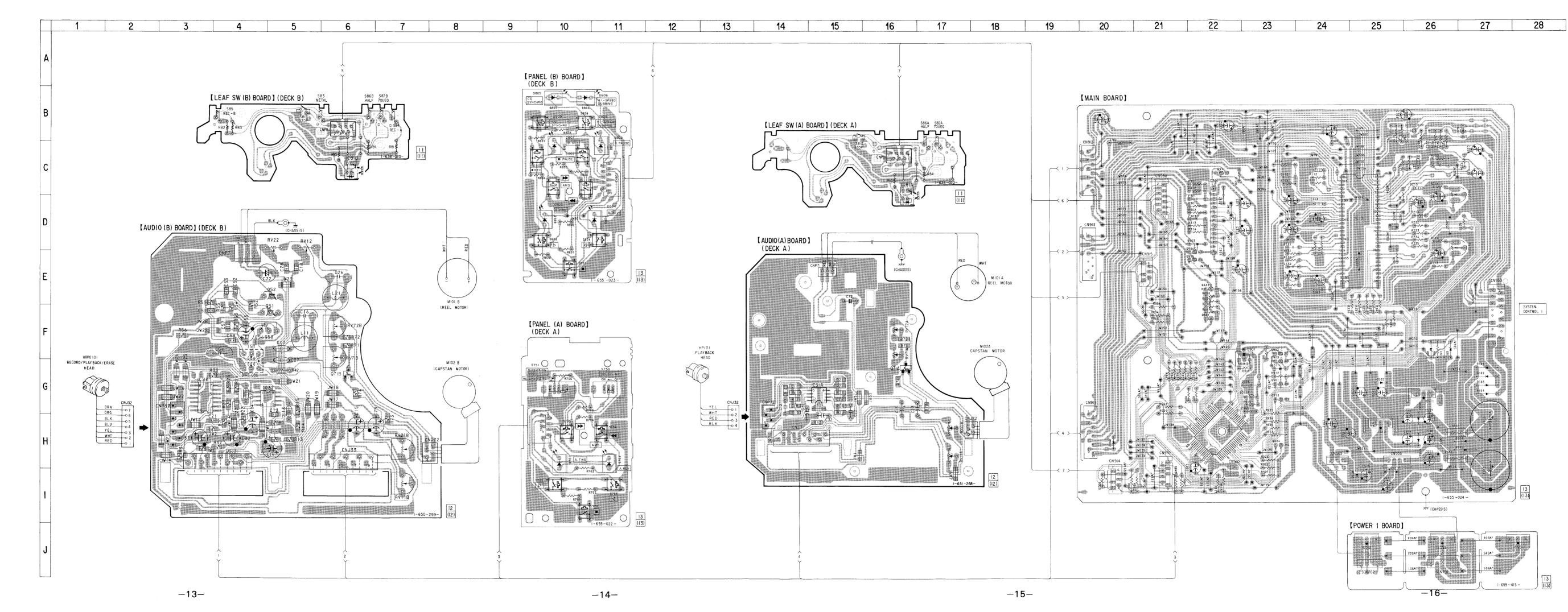
TC-N500

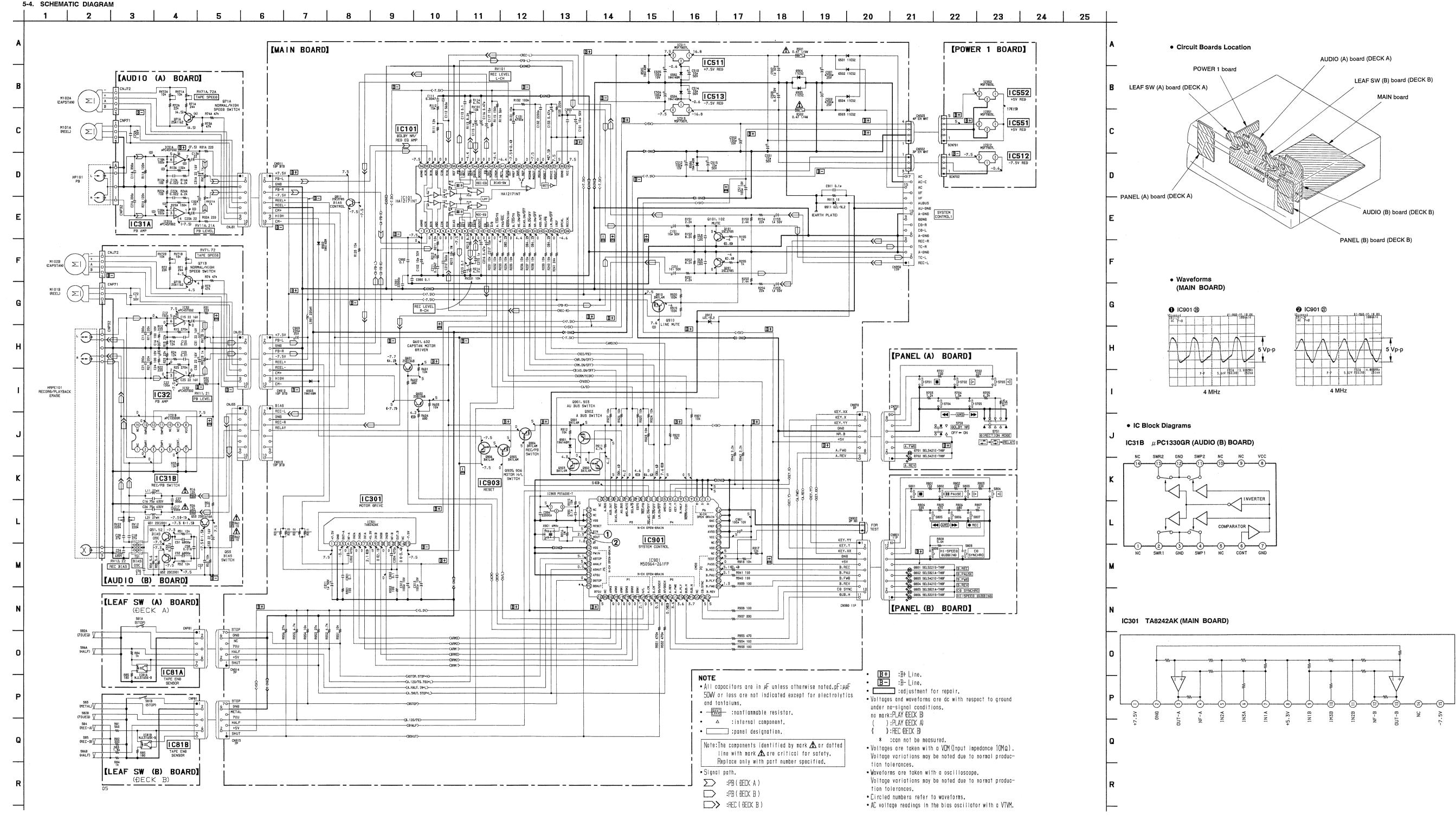
5-3. PRINTED WIRING BOARDS

 Semiconductor Location

Location	Location								
Ref. No.	Location								
D501 D502 D503 D504 D582 D584 D586 D701 D702 D801 D802 D803 D804 D805 D806 D901 D902 D903 D904 D905 D911 D912	G-27 G-27 G-27 H-26 H-26 I-25 H-10 H-11 C-10 D-11 B-10 B-10 B-23 H-20 D-22 H-27 H-27 F-26								
IC31A IC31B IC32 IC81A IC81B IC101 IC301 IC511 IC512 IC551 IC552 IC901 IC903	G-15 G-3 G-5 C-16 C-6 D-25 D-22 G-26 J-25 H-25 J-28 J-28 J-26 H-22 G-23								
Q51 Q52 Q53 Q71A Q81B Q101 Q601 Q601 Q901 Q902 Q903 Q904 Q905 Q906 Q910 Q911	F-5 E-5 F-4 G-16 G-6 B-26 B-27 F-22 E-22 G-23 F-23 G-23 H-23 E-22 E-22 G-23 C-22								

- parts extracted from the component side. • Jumper wire connected to the ground pattern on the component side.
- ♠ △ : internal component.





-18-

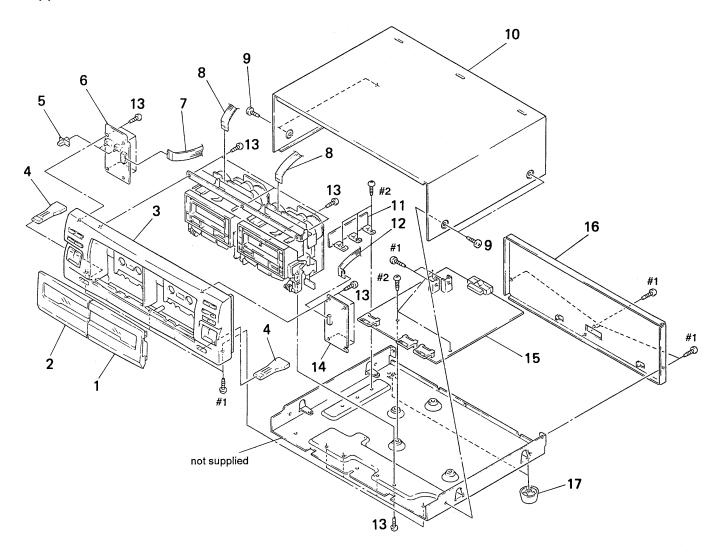
SECTION 6 EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

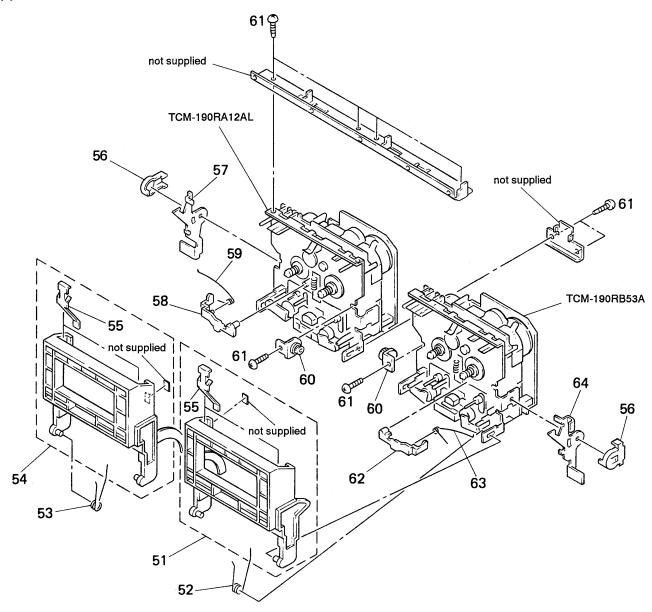
Abbreviation
 IT : Italian
 G : German
 AR : Argentine
 SP : Singapore
 MY : Malaysia
 EE : East European
 AU : Australian
 EA : Saudi Arabia
 MX : Mexican

(1) CHASSIS SECTION



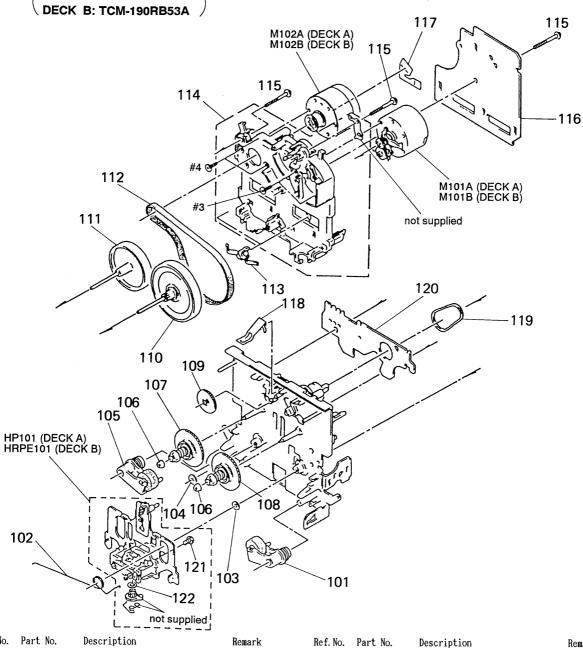
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-3369-643-1	LID (B DECK) ASSY, CASSETTE	1	* 11	1-655-415-13	POWER 1 BOARD	
2	X-3369-642-1	LID (A DECK) ASSY, CASSETTE		12	1-590-488-11	WIRE, FLAT TYPE (11 CORE)	
3	X-3369-668-1	PANEL ASSY, FRONT		13	4-951-620-01	SCREW (2.6X8), +BVTP	
4	3-918-281-01	BUTTON (EJECT)		* 14	1-655-023-13	PANEL (B) BOARD	
5	4-962-707-01	KNOB, SLIDE		* 15	A-2007-332-A	MAIN BOARD, COMPLETE	
* 6	1-655-022-13	PANEL (A) BOARD		* 16	3-918-326-01	PANEL, BACK (AEP, UK, IT, G)	
7	1-769-664-11	WIRE (FLAT TYPE) (9 CORE)		* 16	3-918-326-11	PANEL, BACK (E, AR, SP, MY, EE)	
8	1-590-574-11	WIRE, FLAT TYPE (7 CORE)		* 16	3-918-326-21	PANEL, BACK (AU, EA, PX, MX)	
9	3-363-099-01	SCREW (CASE 3 TP2)		17	X-4941-228-1	FOOT ASSY	
10	4-969-778-31	CASE					

(2) MECHANISM DECK CHASSIS SECTION

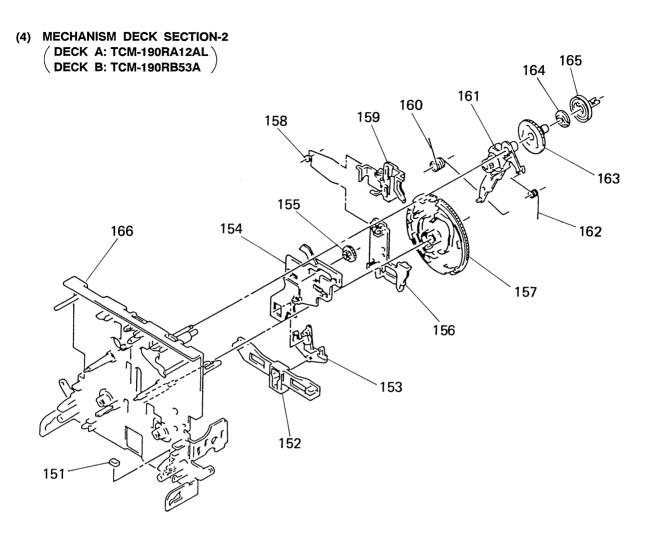


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51 52 53 54 55	3-354-960-01 3-354-959-01 A-4325-163-A	HOLDER (R) ASSY, CASSETTE SPRING (LOADING R), TORSION SPRING (LOADING L), TORSION HOLDER (L) ASSY, CASSETTE DETENT, CASSETTE		58 59 60 61 62	3-354-961-01 3-354-963-01 4-951-620-01	LEVER (EJ SAFTY LEVER L) SPRING (EJ SAFTY SPRING L) DAMPER SCREW (2. 6X8), +BVTP LEVER (EJ SAFTY LEVER R)	
56 * 57		JOINT (LOCK LEVER) LEVER (LOCK LEVER L)		63 * 64		SPRING (EJ SAFTY SPRING R) LEVER (LOCK LEVER R)	

(3) MECHANISM DECK SECTION-1 / DECK A: TCM-190RA12AL \



Ref. No.	Part No.	Description	Remark F	Ref. No.	Part No.	Description	Remark
101	X-3366-047-1	LEVER (PINCH F) ASSY		116	A-2007-134-A	AUDIO BOARD, COMPLETE (DECK B)	
102	3-907-362-01	SPRING, TORSION	*	116		AUDIO BOARD, COMPLETE (DECK A)	
103	3-356-713-01	WASHER		117		MOTOR FLEXIBLE BOARD	
104	3-356-714-01	WASHER		118	3-359-430-01	SPRING (CASSETTE RETAINER), LEAF	
105	X-3366-048-1	LEVER (PINCH R) ASSY		119		BELT (FR), SQUARE	
106	3-362-308-01	CAP (REEL)	*	120	1-638-020-11	LEAF SW BOARD (DECK A)	
107	X-3366-971-1	TABLE ASSY (B), REEL	*	120	1-638-020-11	LEAF SW BOARD (DECK B)	
108	X-3366-970-1	TABLE ASSY, REEL		121	3-388-848-01	SCREW (P2X6) (B TIGHT)	
109	3-359-424-01	GEAR (REV GEAR)		122	3-701-440-11	WASHER, 3.5 (DECK B)	
110	X-3367-629-1	FLYWHEEL (FWD) ASSY		122	3-701-440-21	WASHER, 3.5 (DECK A)	
111	X-3359-410-1	FLYWHEEL (REV) ASSY (DECK A)		HP101	A-2003-757-A	BASE ASSY, HEAD (DECK A)	
111	X-3367-630-1	FLYWHEEL (REV) ASSY (DECK B)				BASE ASSY, HEAD (DECK B)	
112	3-359-417-01	BELT (FLAT), CAPSTAN				MOTOR ASSY (REEL) (DECK A)	
113	3-575-321-00	RETAINER, THRUST, CAPSTAN				MOTOR ASSY (REEL) (DECK B)	
114	3-359-436-11	BASE (THRUST RETAINER), FITTING				MOTOR ASSY (CAPSTAN) (DECK A)	
115	3-359-414-01	SCREW (+PTPWH 2X23)		M102B	X-3365-377-2	MOTOR ASSY (CAPSTAN) (DECK B)	



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	3-359-469-01	SPACER		159	3-359-429-11	SLIDER (BRAKE PLATE) (DECK B)	
152	3-359-425-01	SLIDER (REVERSE SLIDER)		160		SPRING (TRIGGER SPRING), TORSION	
153	3-359-426-01	LEVER (REVERSE LEVER)		161		ARM ASSY. FR	
* 154	3-359-415-01	SLIDER (TRIGGER SLIDER) (DEC	K A)	162		SPRING (FR ARM), TORSION	
* 154	3-359-415-11	SLIDER (TRIGGER SLIDER) (DEC	CK B)	163		GEAR (FR GEAR)	
155	3-359-448-01	GEAR (TRIGGER)		164	3-359-421-01	CLUTCH (REEL DISK)	
156	3-359-427-01	SLIDER (LEVERSE SLIDER)		165		PULLEY (FR PULLEY)	
157	3-359-420-01	GEAR (CAM GEAR)		166		CHASSIS ASSY, MECHANICAL (DECK	۸)
158	3-359-454-01	SPRING, TORSION		166		CHASSIS ASSY, MECHANICAL (DECK	
159	3-359-429-01	SLIDER (BRAKE PLATE) (DECK A)		11 0000 700 1	OLEBOTO ABOT, MECHANICAL (DECK	D)

SECTION 7 ELECTRICAL PARTS LIST

AUDIO (A)

AUDIO (B)

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
 All resistors are in ohms.
 METAL:Metal-film resistor.
 METAL OXIDE: Metal oxide-film resistor.
 F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
 Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS

 In each case, u: μ, for example:
 uA ..: μA.. uPA..: μPA..
 uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS uF: μFCOILS

uH: μ H

The components identified by mark \triangle or dotted line with mark. \triangle are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description		Ren	ark	Ref. No.	Part No.	Description			Rem	ark
*	A-2007-266-A	AUDIO (A) BOARD	. COMPLET	TE (DECK A)		R14	1-216-068-00	METAL CHIP	6. 2K	5%	 1/10₩	
		******	·	, ,		R21	1-216-099-00	METAL CHIP	120K	5%	1/10W	
		< CAPACITOR >				R22	1-216-025-00	METAL GLAZE	100	5%	1/10W	
						R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W	
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	R24	1-216-068-00	METAL CHIP	6. 2K	5%	1/10W	
C12	1-136-157-00	FILM	0.022uF	5%	50V	R31	1-216-033-00	METAL CHIP	220	5%	1/10W	
C13	1-124-234-00	ELECT	22uF	20%	16V	R32	1-216-033-00	METAL CHIP	220	5%	1/10W	
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V							
C21		CERAMIC CHIP	390PF	5%	50V	R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W	
	1 111 111 11					R72	1-216-081-00		22K	5%	1/10W	
C22	1-136-157-00	FIIM	0. 022uF	5%	50V	R73	1-216-089-00		47K		1/10W	
C23	1-124-234-00		22uF	20%	16V	R74	1-216-089-00		47K		1/10W	
C28		CERAMIC CHIP	100PF	5%	50V	R807	1-249-417-11		1K		1/4W	
C31	1-124-234-00		22uF	20%	16V	11007	1 243 417 11	UNIDON	117	3 <i>7</i> ()	1/ 711	
	1-124-234-00		22ur 22uF	20%	16V	R808	1-249-426-11	CADDON	5. 6K	E9/	1/4W	
C32	1-124-234-00	ELECT	ZZUF	20%	104	nouo	1-245-420-11	UARDUN	J. UI	JA	1/4"	
C72	1-124-499-11	ELECT, NONPOLAR	1uF	20%	50V			< VARIABLE RES	ISTOR >			
		< CONNECTOR >						RES, ADJ, CARB				
						RV21A	1-241-761-11	RES, ADJ, CARB	ON 1K			
* CNJ31	1-580-782-11	CONNECTOR, BOAR	D TO BOAF	RD		RV71A	1-241-630-11	RES, ADJ, CARB	ON 10K			
CNJ72	1-764-902-11	CONNECTOR, FFC/	FPC 4P			RV72A	1-241-630-11	RES, ADJ, CARB	ON 10K			
* CNP32	1-580-772-11	PIN, CONNECTOR	(PC BOARI) 4P		******	******	******	******	*****	*****	****
* CNP71	1-564-719-11	PIN, CONNECTOR	(SMALL TY	(PE) 3P								
						*	A-2007-134-A	AUDIO (B) BOAR	D, COMPI	LETE (D	ECK B)	
		< IC >						******	******	*****	*****	ı
IC31A	8-759-106-02	IC uPC4570G2						< CAPACITOR >				
		< JUMPER RESIST	OR >			C11	1-163-131-00	CERAMIC CHIP	390PF		5%	50V
						C12	1-163-117-00	CERAMIC CHIP	100PF		5%	50V
JW1	1-216-295-00	CONDUCTOR, CHIP				C13	1-136-153-00	FILM	0. 01ul	7	5%	50V
JW51	1-216-296-00	•	0 5%	1/8W		C14	1-126-177-11	ELECT	100uF		20%	10V
JW52	1-216-296-00		0 5%			C15	1-124-234-00		22uF		20%	16V
JW53	1-216-296-00		0 5%									
JW54	1-216-296-00		0 5%			C16	1-136-273-00	FILM	75PF		5%	630V
Unux	1 210 230 00	METRIC OTTT	0 0/1	, 1,011		C17	1-164-080-11		390PF		10%	50V
		< TRANSISTOR >				C18		CERAMIC CHIP	27PF		5%	50V
		\ TRANSIBION /				C21		CERAMIC CHIP	390PF		5%	50V
Q71A	8-729-216-22	TRANSISTOR 2SA	A1162			C22		CERAMIC CHIP	100PF		5%	50V
		< RESISTOR >				C23	1-136-153-00	FILM	0. 01ul	7	5%	50V
		CILDIDION /				C24	1-126-177-11		100uF		20%	10V
R11	1-216-099-00	METAL CUID	120K 5%	1/10W		C25	1-124-234-00		22uF		20%	16V
				•		C25	1-124-234-00		22ur 75PF		20% 5%	630V
R12	1-216-025-00		100 5%	•					390PF		10%	50V
R13	1-216-100-00	METAL GLAZE	130K 5%	3 1/10W		C27	1-164-080-11	CENAMIC	39025		TO%	JUY

AUDIO (B)

Ref. No.	Part No.	Description		Rem	ark	Ref. No.	Part No.	Description			Remark
C28	1-163-103-00	CERAMIC CHIP	27PF	5%	50V			< TRANSISTOR	>		
C31	1-124-234-00	ELECT	22uF	20%	16V						
C32	1-124-234-00	ELECT	22uF	20%	16V	Q51	8-729-142-46	TRANSISTOR	2SC2001-L	K	
C33	1-124-234-00	ELECT	22uF	20%	16V	Q52	8-729-142-46	TRANSISTOR	2SC2001-L	K	
C51	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	Q53	8-729-111-29		2SD1616A-	K	
						Q71B	8-729-216-22	TRANSISTOR	2SA1162		
C52		CERAMIC CHIP	0. 0068uF	10%	50V						
C53		CERAMIC CHIP	0. 012uF	10%	50V			< RESISTOR >			
C54	1-136-559-11	CERAMIC CHIP	0. 0047uF	5%	630V	D11	1 010 000 00	METAL CHID	1907	E0v 1/	1.00
C56 C57		CERAMIC CHIP	2. 2uF 1uF		16V 16V	R11 R12	1-216-099-00 1-216-033-00		120K 5		10W 10W
037	1-104-340-11	OENAMIC CHIF	iur		104	R13	1-216-033-00				10W
C58	1-163-024-00	CERAMIC CHIP	0. 018uF	10%	50V	R14	1-216-075-00				10W
C72		ELECT, NONPOLAR		20%	50V	R15	1-216-107-00		270K		10W
0.2	1 101 100 11	EBBOT, NOW OFFI	101	20%		nio.	1 210 10. 00	MBITTE OTT	D.O.	0,0 1,	1011
		< CONNECTOR >				<u></u> 1. R16	1-249-430-11	CARBON	12K	5% 1/-	4W
						R21	1-216-099-00	METAL CHIP	120K	5% 1/	10W
* CNJ31	1-580-782-11	CONNECTOR, BOAR	D TO BOARD			R22	1-216-033-00	METAL CHIP	220	5% 1/	10W
* CNJ33	1-580-782-11	CONNECTOR, BOAR	D TO BOARD			R23	1-216-081-00	METAL CHIP	22K	5% 1/	10W
		CONNECTOR, FFC/				R24	1-216-075-00	METAL CHIP	12K	5% 1/	10W
		PIN, CONNECTOR									
* CNP71	1-564-719-11	PIN, CONNECTOR	(SMALL TYPE)	3P		R25	1-216-107-00				10W
						<u>1</u> \R26	1-249-430-11			5% 1/	
		< IC >				R31	1-216-033-00			•	10W
IC31R	8-759-249-21	IC uPC1330GR				R32	1-216-033-00				10W
IC32	8-759-106-02					R33	1-216-073-00	METAL CHIP	10K	5% 1/	10W
1632	0-739-100-02	IC uPC4570G2				A D41	1-249-393-11	CADDON	10	5% 1/-	AW
		< JUMPER RESIST	OR >			<u>^1</u> \R41 <u>_1</u> \R42	1-249-393-11			5% 1/-	
		V JUMPER RESIST	Jn /			R51	1-249-393-11				4m 10W
JW1	1-216-295-00	CONDUCTOR, CHIP				R52	1-216-075-00				10W
JW2		CONDUCTOR, CHIP				R53	1-216-073-00				10W
JW11	1-216-296-00	•	0 5%	1/8W		1.00	1 210 0.0 00	MDTID OIII	1011	0.0 1,	1011
JW12	1-216-296-00		0 5%	1/8W		R54	1-216-309-00	METAL CHIP	5.6	5% 1/	10W
JW13	1-216-296-00	METAL CHIP	0 5%	1/8W		R55	1-216-309-00	METAL CHIP	5.6	5% 1/	10W
						R56	1-216-298-00	METAL CHIP	2. 2	5% 1/	10W
JW14	1-216-296-00	METAL CHIP	0 5%	1/8W		R71	1-216-082-00	METAL GLAZE	24K	5% 1/	10W
JW15	1-216-296-00		0 5%	1/8W		R72	1-216-081-00	METAL CHIP	22K	5% 1/	10W
JW16	1-216-296-00		0 5%	1/8W							
JW17	1-216-296-00		0 5%	1/8W		R73	1-216-089-00				10W
JW18	1-216-296-00	METAL CHIP	0 5%	1/8W		R74	1-216-089-00	METAL CHIP	47K	5% 1/	10W
THE O	1 916 906 90	METAL CULD	n Fe	1 /OW				/ UADIABLE P	ECIOTOD \		
JW19 JW20	1-216-296-00		0 5%	1/8W				< VARIABLE R	E21210K >		
JW20 JW21	1-216-296-00 1-216-296-00	•	0 5% 0 5%	1/8W 1/8W		DV/11D	1-241-761-11	DEG VDI UV	DRON 11		
JW22	1-216-296-00		0 5%	1/8W		RV11b	1-238-551-11				
JW23	1-216-296-00		0 5%	1/8W			1-241-761-11				
v.,_v	1 210 200 00		0 0/0	1, 0,,		RV22		RES, ADJ, CA			
JW24	1-216-296-00	METAL CHIP	0 5%	1/8W			1-241-630-11				
JW25	1-216-296-00		0 5%	1/8W				,, •••			
JW26	1-216-296-00	METAL CHIP	0 5%	1/8W		RV72B	1-241-630-11	RES, ADJ, CA	RBON 10K		
JW27	1-216-296-00	METAL CHIP	0 5%	1/8W							
								< TRANSFORME	R >		
		< COIF >									
* * *	4 440 ====	7.VP1/2ma=				T51		COIL, BIAS O			
L11	1-410-780-11		27uH			******	******	******	*****	******	******
L21	1-410-780-11	INDUCTOR	27uH								

The components identified by mark A or dotted line with mark.
A are critical for safety.
Replace only with part number specified.

				ΙΕΛ	F SW (Λ \ ΕΛ	F SW	/B)	MAIN
Ref. No.	Part No.	Description	Remark		Part No.	Description	AF 3W		ark
*	1-638-020-11	LEAF SW (A) BOARD (DECK A)	·	*	A-2007-332-A	MAIN BOARD, COM			
		< CONNECTOR >			1-537-770-11 7-685-646-79	TERMINAL BOARD,	GROUND 3X8 TYPE2 N	√-S	
* CNP81	1-568-850-11	SOCKET, CONNECTOR 7P				2112			
		< IC >				< CAPACITOR >			
		16 /	-	C101	1-124-907-11	ELECT	10uF	20%	50V
IC81A	8-749-924-10	IC PHONT REFLECTOR NJL516	5K-B(H1)	C102	1-124-907-11		10uF	20%	50V
				C111	1-137-368-11	FILM	0.0047uF	5%	50V
		< RESISTOR >		C112	1-162-291-31	CERAMIC	560PF	10%	50V
				C113	1-137-399-11	FILM	0. 1uF	5%	50V
R84	1-249-417-11		1/4W	~44.5		DI Dam	4 5	0.00	FOU
R85	1-249-408-11	CARBON 180 5%	1/4W	C115	1-124-903-11		1uF	20%	50V
		< SWITCH >		C116	1-124-902-00 1-124-907-11		0. 47uF 10uF	20% 20%	50V 50V
		< SWITCH >		C117 C131	1-124-907-11		10ur 0. 0047uF	20%	16V
S81A	1-571-958-11	SWITCH, PUSH (1 KEY) (STOP)		C131	1-162-302-11		0. 0047uf	20%	16V
		SWITCH, LEAF (70 UEQ)		0102	1 102 002 11	OLIGHIO	0. 00 22 di	20.0	101
		SWITCH, LEAF (HALF)		C133	1-124-902-00	ELECT	0. 47uF	20%	50V
*****	******	********	*****	C151	1-124-907-11	ELECT	10uF	20%	50V
				C152	1-162-286-31	CERAMIC	220PF	10%	50V
*	1-638-020-11	LEAF SW (B) BOARD (DECK B)		C153	1-124-903-11	ELECT	1uF	20%	50V
		********		C211	1-137-368-11	FILM	0.0047uF	5%	50V
		< CONNECTOR >		C212	1-162-291-31	CEDAMIC	560PF	10%	50V
		CONNECTOR /		C212	1-137-399-11		0. 1uF	5%	50V
* CNP81	1-568-850-11	SOCKET, CONNECTOR 7P		C215	1-124-903-11		1uF	20%	50V
. 0111 01	1 000 000 11	Booker, Commediate in		C216	1-124-902-00		0. 47uF	20%	50V
		< IC >		C217	1-124-907-11		10uF	20%	50V
			()				40.5	0.00	- 011
IC81B	8-749-924-10	IC PHONT REFLECTOR NJL516	5K-B(H1)	C251	1-124-907-11		10uF	20%	50V
		/ DEGLOTOD \		C252	1-162-286-31		220PF	10%	50V
		< RESISTOR >		C253 C301	1-124-903-11 1-164-159-11		1uF 0. 1uF	20%	50V 50V
R81	1-249-414-11	CARBON 560 5%	1/4W	C301	1-162-290-31		470PF	10%	50V
R82	1-247-818-11		1/4W	0302	1 102 230 31	OLIUMIO	41011	10%	007
R83	1-247-834-11		1/4W	C303	1-164-159-11	CERAMIC	0. 1uF		50V
R84	1-249-417-11		1/4W	C304	1-162-290-31		470PF	10%	50V
R85	1-249-408-11	CARBON 180 5%	1/4W	C311	1-124-903-11	ELECT	1uF	20%	50V
				C312	1-124-443-00	ELECT	100uF	20%	10V
		< SWITCH >		C313	1-124-443-00	ELECT	100uF	20%	10V
C01D	1 571 050_11	SWITCH, PUSH (1 KEY) (STOP)		C501	1-124-564-11	EI ECT	4700uF	20%	25V
S81B S82B		SWITCH, LEAF (70 UEQ)		C502	1-124-564-11		4700uF	20%	25V
S83B		SWITCH, LEAF (METAL)		C505	1-124-443-00		100uF	20%	10V
S84		SWITCH, LEAF (REC-A)		C506	1-124-443-00		100uF	20%	10V
S85		SWITCH, LEAF (REC-B)		C507	1-124-903-11		1uF	20%	50V
		SWITCH, LEAF (HALF)		C508	1-124-902-00		0. 47uF	20%	50V
******	*****	***********	******	C511	1-124-443-00		100uF	20%	10V
				C512	1-124-443-00		100uF	20%	10V
				C513 C514	1-124-907-11 1-124-907-11		10uF 10uF	20% 20%	50V 50V
				0314	1-174-301-11	LLEVI	1001	ZU/6	JU Y
				C515	1-124-907-11	ELECT	10uF	20%	50V
				C551	1-124-907-11	ELECT	10uF	20%	50V

MAIN

Ref. No.	Part No.	Description		F	lemark	Ref. No.	Part No.	Description			Remark
C552	1-124-443-00	ELECT	- 100uF	20%	10V			< COIT >	-		
C901	1~124-584-00	ELECT	100uF	20%	10V						
C903	1-124-120-11	ELECT	220uF	20%	25V	L991	1-410-525-11	INDUCTOR	220ul	ł	
C911	1-164-159-11	CERAMIC	0. 1uF		50V			< TRANSISTOR	 		
C990	1-164-159-11		0. 1uF		50V						
C991	1-161-494-00		0. 022uF		25V	Q101	8-729-119-78	TRANSISTOR	2SC2785-	HFF	
C992	1-164-159-11		0. 1uF		50V	Q201	8-729-119-78		2SC2785-		
C993	1-164-159-11		0. 1uF		50V	Q601	8-729-116-56		2SB1068-		
0000	1 101 100 11		0, 141		001	Q602	8-729-116-56		2SB1068-		
C994	1-161-494-00	CERAMIC	0. 022uF		25V	Q901	8-729-900-65		DTA144ES		
C995	1-164-159-11		0. 1uF		50V	¥301	0 123 300 03	TIMINOTOTOR	DINITIE	,	
0330	1 104 105 11	OLIUMITO	o. rui		301	Q902	8-729-900-89	TRANSISTOR	DTC144ES		
		< CONNECTOR	\			Q903	8-729-900-89		DTC144ES		
		COMPLETOR				Q904	8-729-900-65		DTA144ES		
CNSO2	1-564-506-11	DITIC CONNEC	ידחם אם			Q904 Q905	8-729-900-65				
	1-564-507-11	,				Q906			DTA144ES		
	1-560-060-00					Q900	8-729-900-89	TRANSISIUR	DTC144ES)	
						0010	0 700 000 00	TOANGTOTOD	DTA 4 A APC		
	1-580-784-11					Q910	8-729-900-65		DTA144ES		
* CN912	1-580-784-11	CONNECTOR, B	SOARD IO BOARD			Q911	8-729-119-78	TRANSISTOR	2SC2785-	HFE	
	1-580-784-11							< RESISTOR >			
* CN914	1-568-826-11	SOCKET, CONN	ECTOR 7P								
* CN915	1-568-826-11	SOCKET, CONN	ECTOR 7P			R111	1-249-430-11	CARBON	12K	5%	1/4W
CN950	1-764-017-11	HOUSING, CONN	ECTOR (PC BOARI	O) 17P		R112	1-249-431-11	CARBON	15K	5%	1/4W
* CN970	1-568-828-11	SOCKET, CONN	ECTOR 9P			R113	1-249-428-11	CARBON	8. 2K	5%	1/4W
						R114	1-249-425-11	CARBON	4. 7K	5%	1/4W
* CN980	1-568-830-11	SOCKET, CONN	ECTOR 11P			R115	1-247-883-00	CARBON	150K	5%	1/4W
		< DIODE >				R116	1-247-868-11	CARBON	36K	5%	1/4W
						R120	1-249-431-11	CARBON	15K	5%	1/4W
D501	8-719-024-99	DIODE 11ES	2-NTA2B			R131	1-249-431-11	CARBON	15K	5%	1/4W
D502	8-719-024-99	DIODE 11ES	2-NTA2B			R132	1-249-441-11	CARBON	100K	5%	1/4W
D503	8-719-024-99	DIODE 11ES	2-NTA2B			R133	1-247-887-00	CARBON	220K	5%	1/4W
D504	8-719-024-99	DIODE 11ES	2-NTA2B			ľ					•
D505	8-719-987-63	DIODE 1N41	48M			R151	1-249-421-11	CARBON	2. 2K	5%	1/4W
						R152	1-249-428-11		8. 2K		1/4W
D582	8-719-987-63	DIODE 1N41	48M			R153	1-247-840-00		2. 4K		1/4W
D584	8-719-987-63					R154	1-249-433-11		22K	5%	1/4W
D586	8-719-987-63					R155	1-249-417-11		1K	5%	1/4W
D901	8-719-987-63					ni ni	1 210 11, 11	ornibon.	111	0.0	1/ 111
	8-719-987-63					R210	1-215-451-00	METAL.	18K	1%	1/4W
						R211	1-249-430-11		12K	5%	1/4W
D903	8-719-987-63	DIODE 1N41	48M			R212	1-249-431-11		15K	5%	1/4W
D904	8-719-024-99		2-NTA2B			R213	1-249-428-11		8. 2K		1/4W
D905	8-719-024-99		2-NTA2B			R214	1-249-425-11		4. 7K		1/4W
D911	8-719-933-54					1,211	1 210 120 11	Ollibon	T. (1)	0.49	1/ 111
D912	8-719-933-54					R231	1-249-429-11	CARRON	10K	5%	1/4W
2012	0 110 000 01	DIODE HEBS.	1120			R232	1-249-429-11		10K 10K	5%	
		< IC >				R233	1-249-429-11		10K 10K		1/4W 1/4W
		/				R234	1-249-429-11		10K 10K	5% 5%	
[C101	8-759-098-75	IC HA12171	NT			R235	1-249-429-11		10K 10K	5% 5%	1/4W
IC301	8-759-266-35					nzəə	1-742-472-11	UARDUN	TOV	Jλ	1/4W
	8-759-604-86					R236	1-249-429-11	CADRON	101/	E0/	1 / <i>AW</i>
	8-759-604-90								10K	5% =~	1/4W
	8-759-250-60					R237	1-249-429-11		10K	5% ==0/	1/4W
10301	0 100 200-00	IC M50964-	401FF			R238	1-249-429-11		10K	5% =~	1/4W
10003	8-759-165-82	IC PST600E	-Т			R239	1-249-429-11		10K	5% =°⁄	1/4W
10303	0 100 100-02	TA 191000E.	1			R240	1-249-429-11	UARBUN	10K	5%	1/4W

MAIN PANEL (A)

									1417 1114	. / \ \ \
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description		Remark
R241	1-247-864-11	CARBON	24K	5%	1/4W	R954	1-249-429-11	CARBON	10K 5%	1/4W
R251	1-249-421-11	CARBON	2. 2K	5%	1/4W					
R252	1-249-428-11	CARBON	8. 2K	5%	1/4W	R955	1-249-425-11	CARBON	4.7K 5%	1/4W
R253	1-247-840-00	CARBON	2. 4K	5%	1/4W	R956	1-249-434-11	CARBON	27K 5%	1/4W
R254	1-249-433-11	CARBON	22K	5%	1/4W			/ WADIADIE D	Patamon \	
R255	1-249-417-11	CARBON	1K	5%	1/4W			< VARIABLE R	ESISTOR >	
R301	1-247-807-31		100	5%	1/4W	RV101	1-238-600-11	RES. ADJ. CA	RBON 10K	
R302	1-247-807-31		100	5%	1/4W	1	1-238-600-11			
R311	1-249-381-11		1	5%	1/4W			,,		
R312	1-249-381-11		1	5%	1/4W			< VIBRATOR >		
R313	1-249-381-11	CARRON	1	5%	1/4W	X901	1-577-358-21	VIBRATOR, CE	BAMIC (4 MHz)	
R314	1-249-381-11		1	5%	1/4W		********	•	, ,	*****
<u>1</u> R501	1-217-371-00		0. 47		1/4W					
/\R502	1-217-371-00		0. 47	10%	1/4W	*	1-655-022-13	PANEL (A) BO	ARD	
R601	1-249-429-11		10K	5%	1/4W		1 000 022 10	******		
R602	1-249-415-11	CARRON	680	5%	1/4W			< CONNECTOR	\	
R603	1-249-429-11		10K	5%	1/4W			CONNECTOR	/	
R604	1-249-425-11		680	5%	1/4W	4 CN701	1-568-852-11	COCKET CONN	ECTAD OD	
R911	1-249-415-11		4. 7K	5%	1/4W	* UN/U1	1-300-032-11	SOURET, CORN	LUIUN 3F	
R912	1-249-429-11			5%	1/4W			< DIODE >		
N912	1-249-429-11	CARDON	10K	J/6	1/4#			V DIODE /		
R913	1-249-393-11	CARBON	10	5%	1/4W	D701	8-719-046-42	DIODE SEL5	421E-TH8F	
R915	1-249-429-11	CARBON	10K	5%	1/4W	D702	8-719-046-42	DIODE SEL5	421E-TH8F	
R916	1-247-903-00	CARBON	1M	5%	1/4W					
R917	1-249-429-11	CARBON	10K	5%	1/4W			< RESISTOR >		
R918	1-249-429-11	CARBON	10K	5%	1/4W					
						R701	1-247-811-31	CARBON	150 5%	1/4W
R919	1-249-441-11	CARBON	100K	5%	1/4W	R702	1-249-409-11	CARBON	220 5%	1/4W
R920	1-249-441-11	CARBON	100K	5%	1/4W	R703	1-249-418-11	CARBON	1.2K 5%	1/4W
R921	1-249-429-11		10K	5%	1/4W	R704	1-249-419-11	CARBON	1.5K 5%	1/4W
R922	1-249-429-11		10K	5%	1/4W	R705	1-247-850-11	CARBON	6.2K 5%	1/4W
R923	1-249-429-11	CARBON	10K	5%	1/4W	R706	1-247-858-11	CADRON	13K 5%	1/4W
R924	1-249-429-11	CARRON	10K	5%	1/4W	1700	1 247 030 11	UAILDON	131/ 3/0	1/4"
R925	1-249-429-11		10K	5%	1/4W			< SWITCH >		
R926	1-249-429-11		10K	5%	1/4W			\ BiiIIOII /		
R927	1-249-429-11		10K	5%	1/4W	S701	1-554-303-21	SWITCH, TACT	HF (=)	
R931	1-247-895-00		470K		1/4W		1-554-303-21			
11001	1 217 000 00	Olithoon	11011	0.0	1/ 1"	S703		SWITCH, TACT		
R932	1-247-895-00	CARRON	470K	5%	1/4W	S704		SWITCH, TACT		
R933	1-247-807-31		100	5%	1/4W	S705		SWITCH, TACT		
R934	1-247-807-31		100	5%	1/4W	1 5700	1 004 000 21	Billion, mor	ILL (FF)	
R935	1-249-413-11		470	5%	1/4W	S750	1-571-298-11	SWITCH SLID	F (DOLBY NR)	
R937	1-249-411-11		330	5%	1/4W	S751			E (DIRECTION)	MODE)
11307	1 213 111 11	OTHEON	000	0/0	1/ 111		******	,	_ (,
R938	1-247-807-31	CARBON	100	5%	1/4W					
R939	1-247-807-31	CARBON	100	5%	1/4W					
R940	1-247-807-31	CARBON	100	5%	1/4W					
R941	1-247-811-31	CARBON	150	5%	1/4W					
R942	1-249-421-11	CARBON	2. 2K	5%	1/4W					
R943	1-249-421-11	CARBON	2. 2K	5%	1/4W					
R951	1-249-429-11		10K	5%	1/4W					
R952	1-249-425-11		4. 7K		1/4W					
R953	1-249-434-11		27K	5%	1/4W					
					•					

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

POWER PANEL (B) Ref. No. Part No. Description Remark 1-655-023-13 PANEL (B) BOARD ****** < CONNECTOR > * CN801 1-568-854-11 SOCKET, CONNECTOR 11P < DIODE > D801 8-719-046-46 DIODE SEL5221S-TH8F 8-719-046-38 DIODE SEL5821A-TH8F D803 8-719-046-42 DIODE SEL5421E-TH8F D804 8-719-046-42 DIODE SEL5421E-TH8F D805 8-719-046-38 DIODE SEL5821A-TH8F 8-719-046-46 DIODE SEL5221S-TH8F D806 < RESISTOR > R801 1-247-811-31 CARBON 1/4W 150 5% R802 1-249-409-11 CARBON 220 1/4W 5% R803 1-249-411-11 CARBON 330 1/4W R804 1-249-411-11 CARBON 330 5% 1/4W R805 1-249-413-11 CARBON 470 5% 1/4WR806 1-249-415-11 CARBON 680 5% 1/4W 1-249-417-11 CARBON 1K 5% 1/4W R808 1-249-426-11 CARBON 5.6K 5% 1/4W < SWITCH > S801 1-554-303-21 SWITCH, TACTILE (■) S802 1-554-303-21 SWITCH, TACTILE (■) S803 1-554-303-21 SWITCH, TACTILE (\triangleright) 1-554-303-21 SWITCH, TACTILE (◄) S804 S805 1-554-303-21 SWITCH, TACTILE (◀◀) 1-554-303-21 SWITCH, TACTILE (▶▶) S807 1-554-303-21 SWITCH, TACTILE (● REC) S808 1-554-303-21 SWITCH, TACTILE (HI-SPEED DUBBING) 1-554-303-21 SWITCH, TACTILE (CD SYNCHRO) ******************* 1-655-415-13 POWER 1 BOARD ********* < IC > IC512 8-759-604-90 IC M5F7907

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	

7	1-769-664-1	1 WIRE (FLAT TYPE) (9 CORE)	
8	1-590-574-1	1 WIRE, FLAT TYPE (7 CORE)	
12	1-590-488-1	1 WIRE, FLAT TYPE (11 CORE)	
HP101	A-2003-757-	A BASE ASSY, HEAD (DECK A)	
HRPE10	1A-2003-930-	A BASE ASSY, HEAD (DECK B)	
		2 MOTOR ASSY (REEL) (DECK A)	
M101B	X-3363-501-	2 MOTOR ASSY (REEL) (DECK B)	
M102A	X-3365-377-	2 MOTOR ASSY (CAPSTAN) (DECK A)	
M102B	X-3365-377-	2 MOTOR ASSY (CAPSTAN) (DECK B)	
******	*****	************	*******
	****	******	
	HA	RDWARE LIST	
	****	*******	
#1		9 SCREW +BVTP 3X8 TYPE2 N-S	
#2		4 SCREW +BVTT 3X8 (S)	
#3		8 SCREW +P 2.6X2.8	
#4	7-621-775-0	0 SCREW +B 2.6X3	

IC551 8-759-231-53 IC M5F7805 IC552 8-759-231-53 IC M5F7805

CDP-N550C

SERVICE MANUAL



AEP Model UK Model E Model Australian Model Chinese Model PX Model

CDP-N550C is the CD player section in LBT-N550, N550K, N550P, N650AV.

Model Name Using Similar Mechanism	HCD-N350
Base Unit Type	BU-5BD19
Optical Pick-up Type	KSS-213BA/S-N

SPECIFICATIONS

Laser Semiconductor laser

Wavelength

780 - 790 nm

Mass Approx. 4.5 kg

Dimensions

Approx. $355 \times 120 \times 380 \text{ mm}$ (w/h/d, including projections)



Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

CLASS 1 LASER PRODUCT LUOKAN 1 LASERLAITE KLASS 1 LASERAPPARAT This appliance is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CAUTION	; INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDS ÆTTELSE FOR STRÅLING
VARO!	; AVATTAESSA JA SUOJALUKITUS OHITETTAESSA DLET ALTTIINA LASERSÄTEILYLLE.
VARNING	; LASERSTRÄLING NÄR DENNA DEL ÄR OPPNÅD OCH SPÄRREN ÄR URXOPPLAD
ADVARSEL	; USYNUG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN

This caution label is located inside the unit.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- · Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

TABLE OF CONTENTS

Sec	<u>etion</u>	<u>Title</u>	Page
SEF	RVICE NOTE		2
1.	GENERAL	•••••	4
2. 2-1. 2-2. 2-3. 2-4.	Back Panel and Disc Ta Bracket (BD) ASSY	Front Panelble	5
3.	ELECTRICAL ADJUST	TMENTS	7
4. 4-1. 4-2. 4-3. 4-4. 4-5. 4-6. 4-7.	IC Block Diagram	BD Section —	9 11 13 16
5. 5-1. 5-2. 5-3. 5-4.	Disc Table Section	ection BD19)	25 26
6.	ELECTRICAL PARTS	LIST	28

SERVICE NOTE

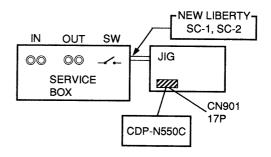
How to confirm the operation with a single unit

Normally, this set does not operate with a single unit.
 The exclusive jig (J-2501-081-A) is necessary to operate the set with a single unit.

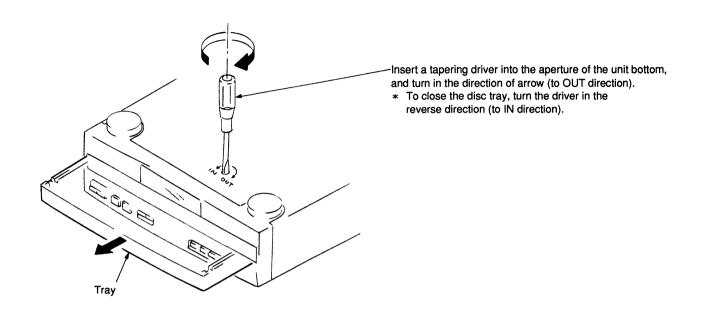
The cable attached to set is used for connecting with the jig.

How to turn the power on

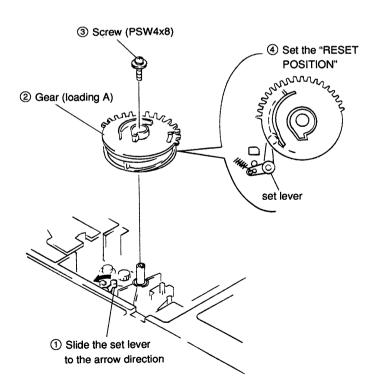
• If the power switch of the service box is set to ON, the power supply of the set is turned on. The sound signal is input/output through CN204 (SYSTEM CONTROL 1). In case of using the input/output terminal of SERVICE BOX, press TIME button, beto button and button for more than three seconds at once.



HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH TURNS OFF

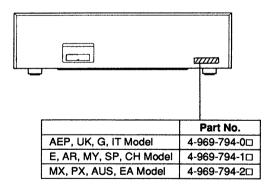


NOTE FOR GEAR (LOADING A) INSTALLATION



MODEL IDENTIFICATION

- BACK PANEL -



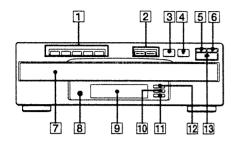
Abbreviation

G : German model.
IT : Italian model.
AR : Argentine model.
MY : Malaysia model.
SP : Singapore model.
CH : Chinese model.
MX : Mexican model.
AUS : Australian model.
EA : Saudi Arabia model.

SECTION 1 **GENERAL**

This section is extracted from instruction manual.

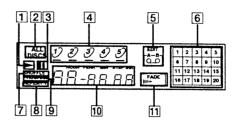
Compact disc player



- 1 DISC SELECT 1-5 buttons (8, 9)
- 2 ► DISC SKIP button (8)

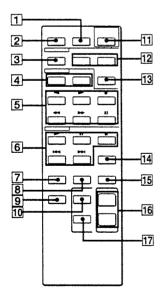
- 5 II (pause) button (8)
- 6 (stop) button (8, 9)
- 7 Disc tray
- 8 TIME button (8)
- 9 Display window (8)
- 10 SHUFFLE button (9)
- 11 PROGRAM button (9)
- 12 CONTINUE button (9)
- 13 > (play) button (8)

Compact disc player



- 1 Play indication (8)
- 2 ALL DISCS/1 DISC indications (8, 9, 10)
- 3 Pause indication
- 4 Disc calendar (8, 9, 10)
- 5 EDIT indications (16)
- 6 Music calendar (8, 9, 10)
- 7 SHUFFLE indication (9)
- 8 REPEAT indication (10)
- 9 PROGRAM indication (9, 16)
- 10 Playing time indications (8)
- 11 FADE indications

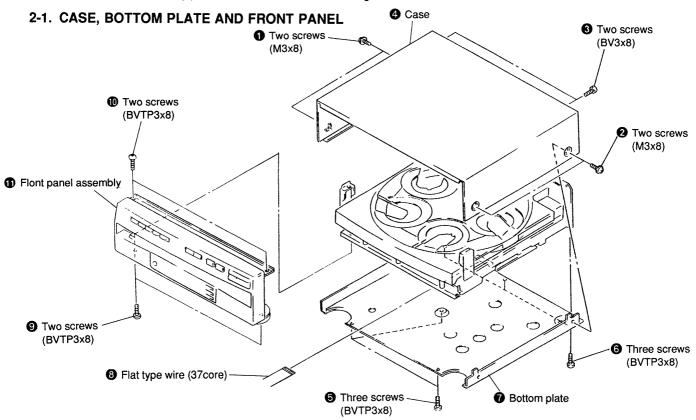
Remote (RM-S500L)



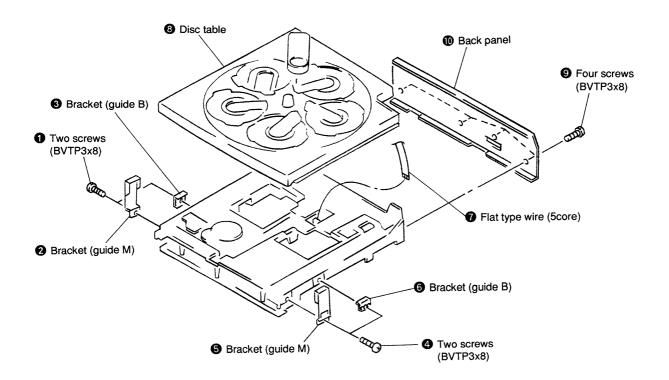
- SLEEP button (21)
- **2** FUNCTION button (7, 14, 15, 18)
- 3 TUNER BAND button (11, 22)
- 4 DECK SELECT buttons (13)
- 5 TAPE operating buttons (13)
 - ✓/ (reverse side play/front side)
 - ◄ (fast leftward/fast rightward)
 - (stop)
 - II (pause)
- 6 CD operating buttons (8)
 - (play)
 - **►** (AMS*)
 - II (pause)
 - (stop)
 - *AMS: Automatic Music Sensor
- **7** CHECK button (10, 16)
- 8 CLEAR button (10)
- 9 DISC SKIP button (8)
- 10 SELECT 1-5 button (19)
- 11 SYSTEM POWER button (7, 8, 11, 13)
- 12 PRESET (+/-) buttons (12)
- 13 STEREO/MONO button (11)
- 14 REPEAT button (10)
- 15 EDIT button (16)
- 16 VOL (volume) buttons (8)
- 17 P.FILE 1-5 button (20)

SECTION 2 DISASSEMBLY

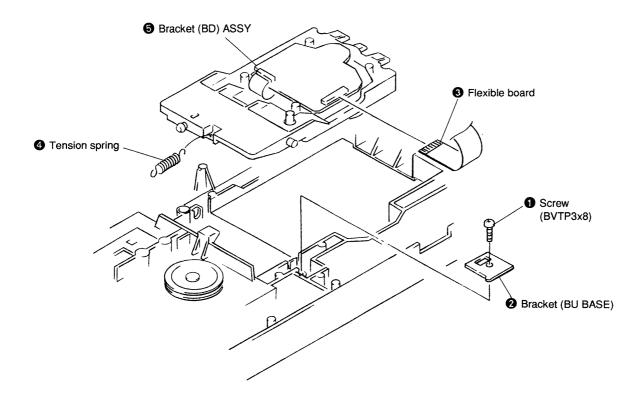
Note: Follow the disassembly procedure in the numerical order given.



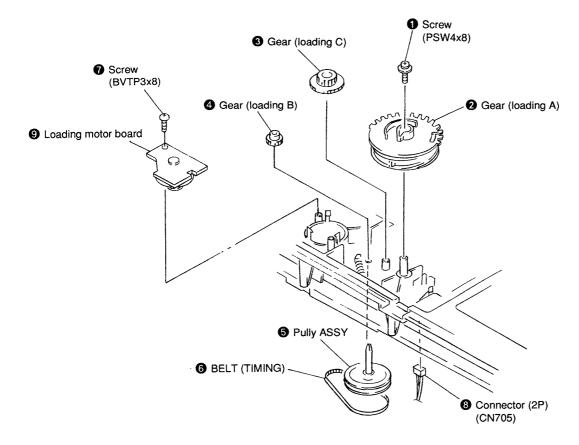
2-2. BACK PANEL AND DISC TABLE



2-3. BRACKET (BD) ASSY



2-4. LOADING MOTOR BOARD



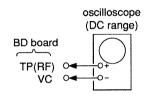
SECTION 3

ELECTRICAL ADJUSTMENTS

Note:

- 1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
- Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
- 3. Use an oscilloscope with more than $10M\Omega$ impedance.
- 4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
- Adjust the focus bias adjustment when optical block is replaced.

Focus Bias Adjustment

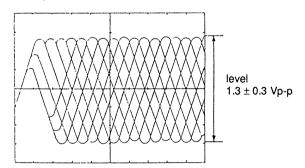


Procedure:

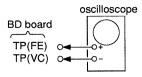
- Connect oscilloscope to test point TP (RF). (GND terminal: VC)
- 2. Turned Power switch on.
- 3. Put disc (YEDS-18) in and playback.
- 4. Adjust RV101 so that the waveform is clear. (Clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.)
- 5. After adjustment, check the RF signal level.

• RF signal

VOLT/DIV: 200 mV TIME/DIV: 500 nS

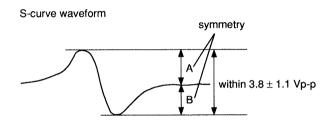


S Curve Check



Procedure:

- 1. Connect oscilloscope to test point TP (FEO).
- Connect between test point TP (FOK) and GND by lead wire.
- 3. Turn Power switch on.
- 4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
- 5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3.8±1.1 Vp-p.

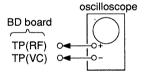


6. After check, remove the lead wire connected in step 2.

Note: • Try to measure several times to make sure than the ratio of A: B or B: A is more than 10: 7.

• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check



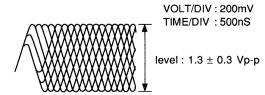
Procedure:

- 1. Connect oscilloscope to test point TP (RF) on BD board.
- 2. Turned Power switch on.
- 3. Put disc (YEDS-18) in and playback.
- Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

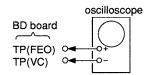
Note:

Clear RF signal waveform means that the shape " \Diamond " can be clearly distinguished at the center of the waveform.

RF signal waveform



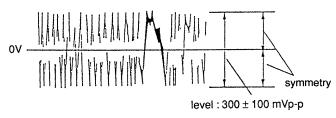
E-F Balance Check



Procedure:

- 1. Connect test point TP (ADJ) on Main board to GND with a lead wire.
- 2. Connect oscilloscpe to test point TP (TEO).
- 3. Turned Power switch on.
- 4. Put disc (YEDS-18) in and playback.
- 5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0Vdc, and check this level.

Traverse waveform



6. Remove the lead wire connected in step 1.

Focus/Tracking Gain Adjustment (RV102, RV103)

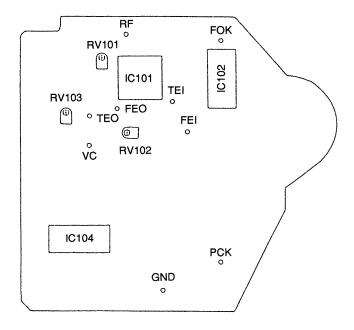
This gain has a margin, so even if it is slightly off. There is no problem.

Therfore, do not perform this adjustment.

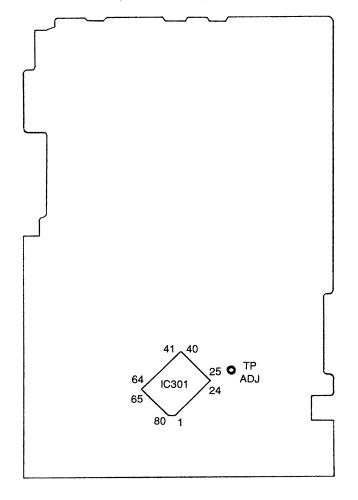
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

Adjustment Location:

[BD BOARD] (Conductor Side)

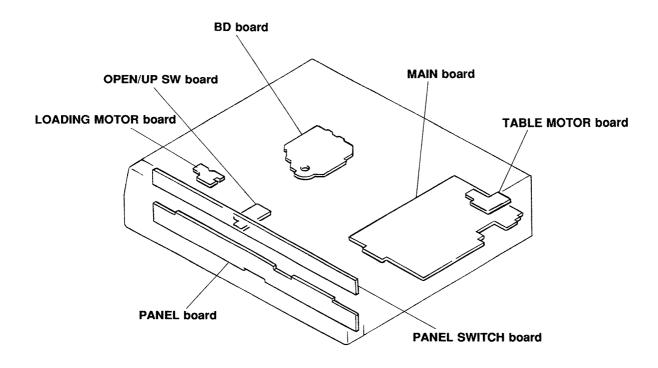


[MAIN BOARD] (Conductor Side)



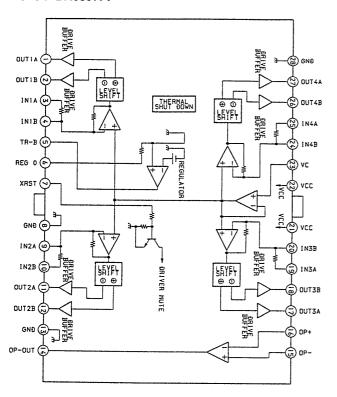
SECTION 4 DIAGRAMS

4-1. CIRCUIT BOARDS LOCATIONS

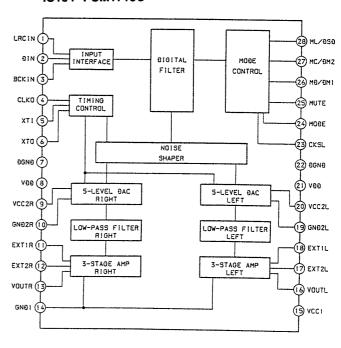


4-2. IC BLOCK DIAGRAMS

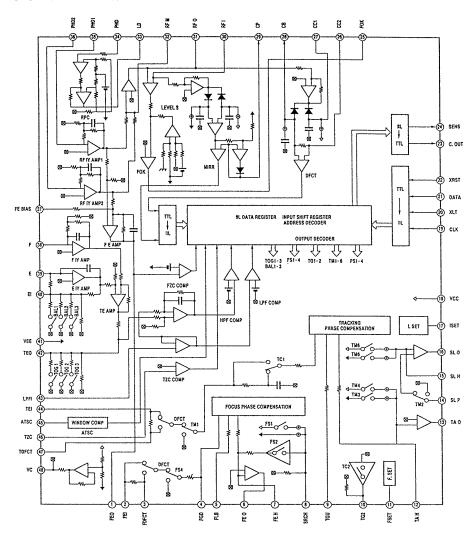
IC102 BA6397FP



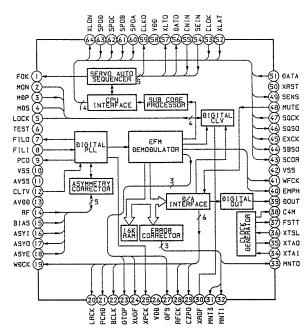
IC104 PCM1710U



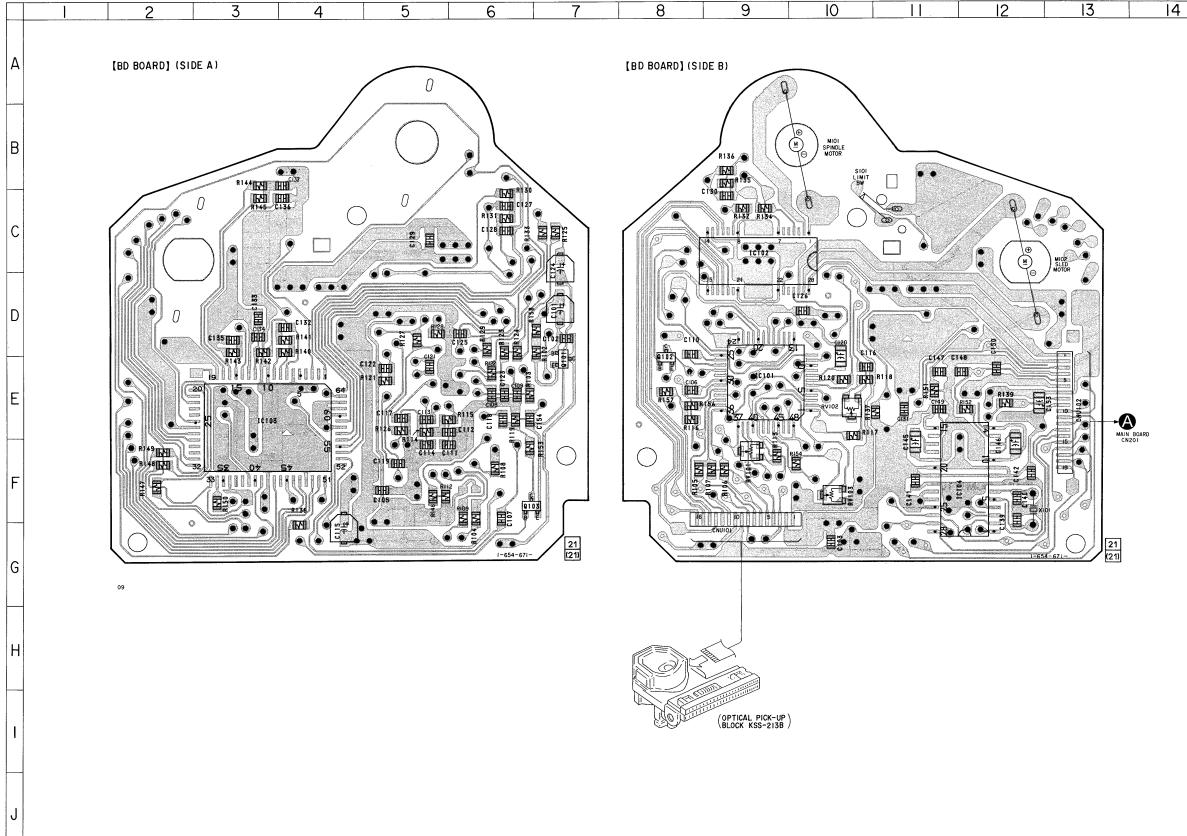
IC101 CXA1782BQ



IC103 CXD2507AQ



4-3. PRINTED WIRING BOARD — BD SECTION — See page 9 for Circuit Boards Location.

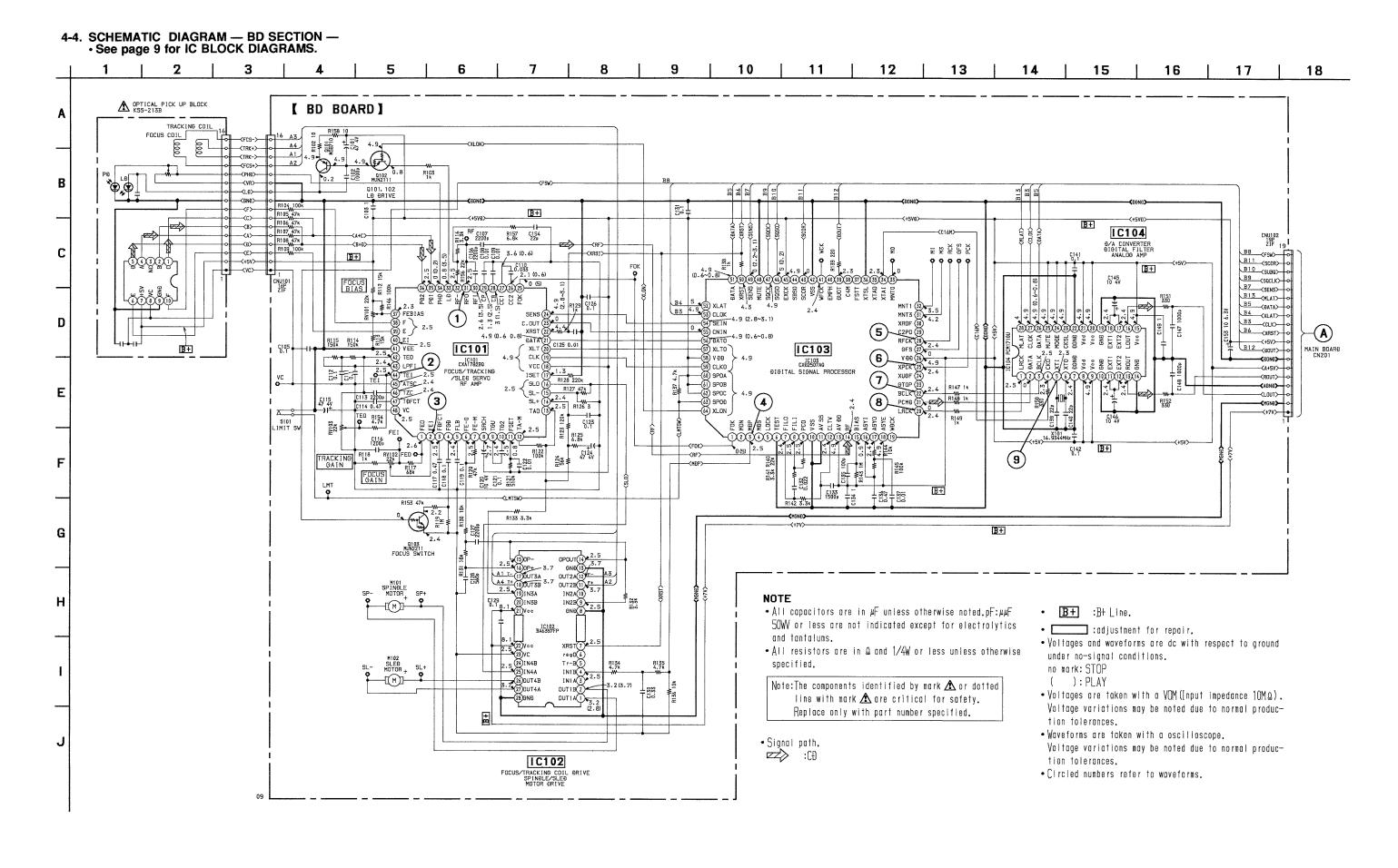


Semiconductor Location

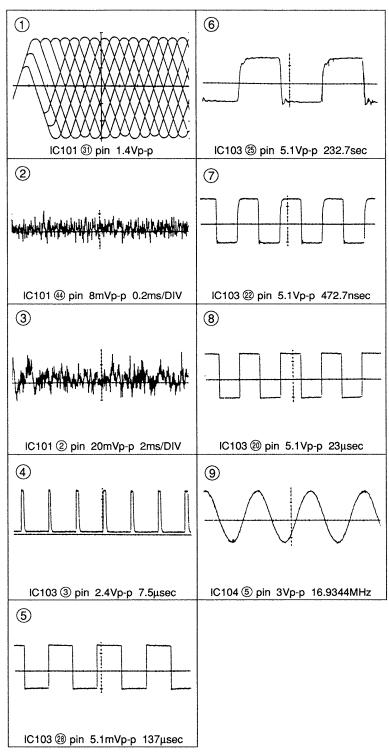
	Ref. No.	Location
	IC101 IC102 IC103 IC104	E-9 C-8 E-3 F-11
	Q101 Q102 Q103	D-6 D-7 F-6

Note:

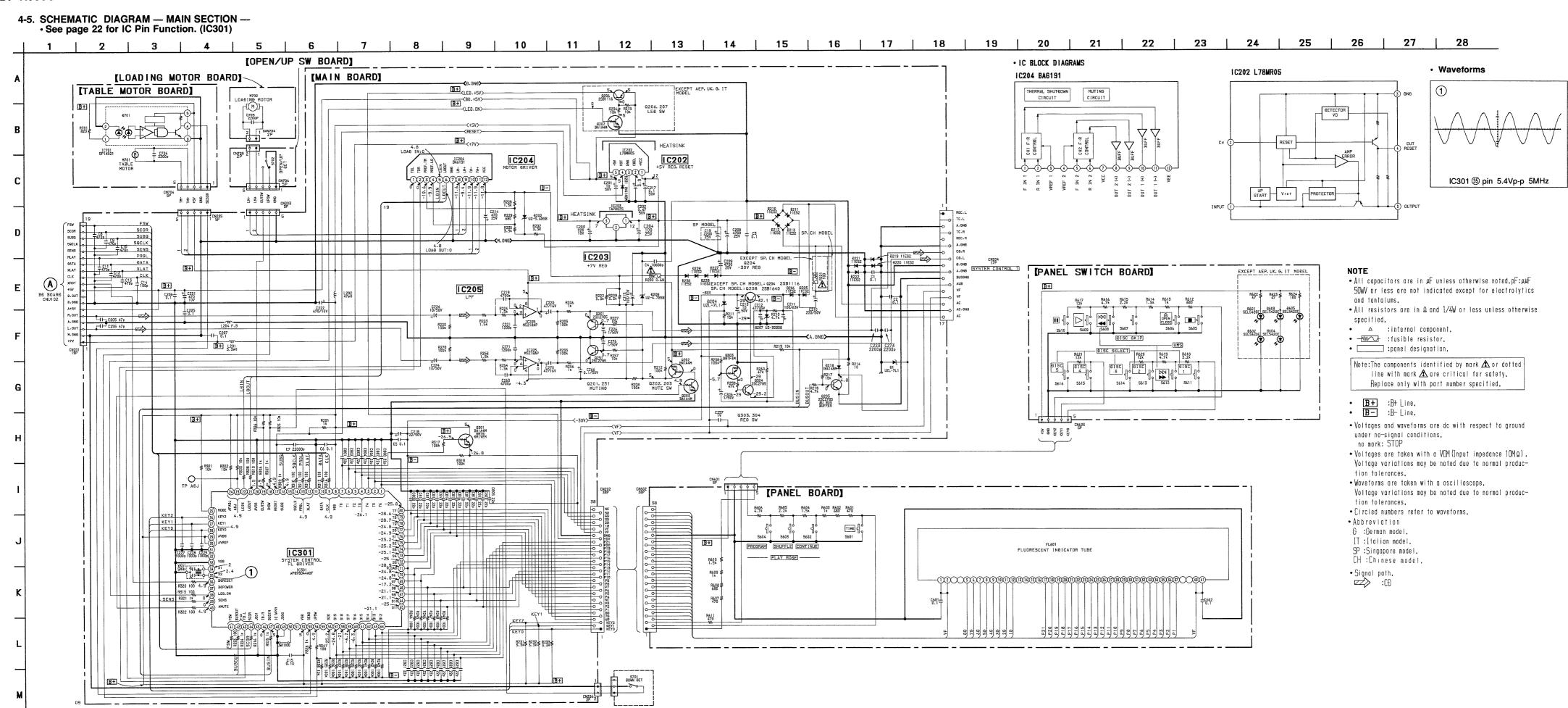
- o : parts extracted from the component side.
- Through hole.
- Pattern from the side which enable seeing.
 (The other layer's patterns are not indicated.)



Waveforms



— 16 —

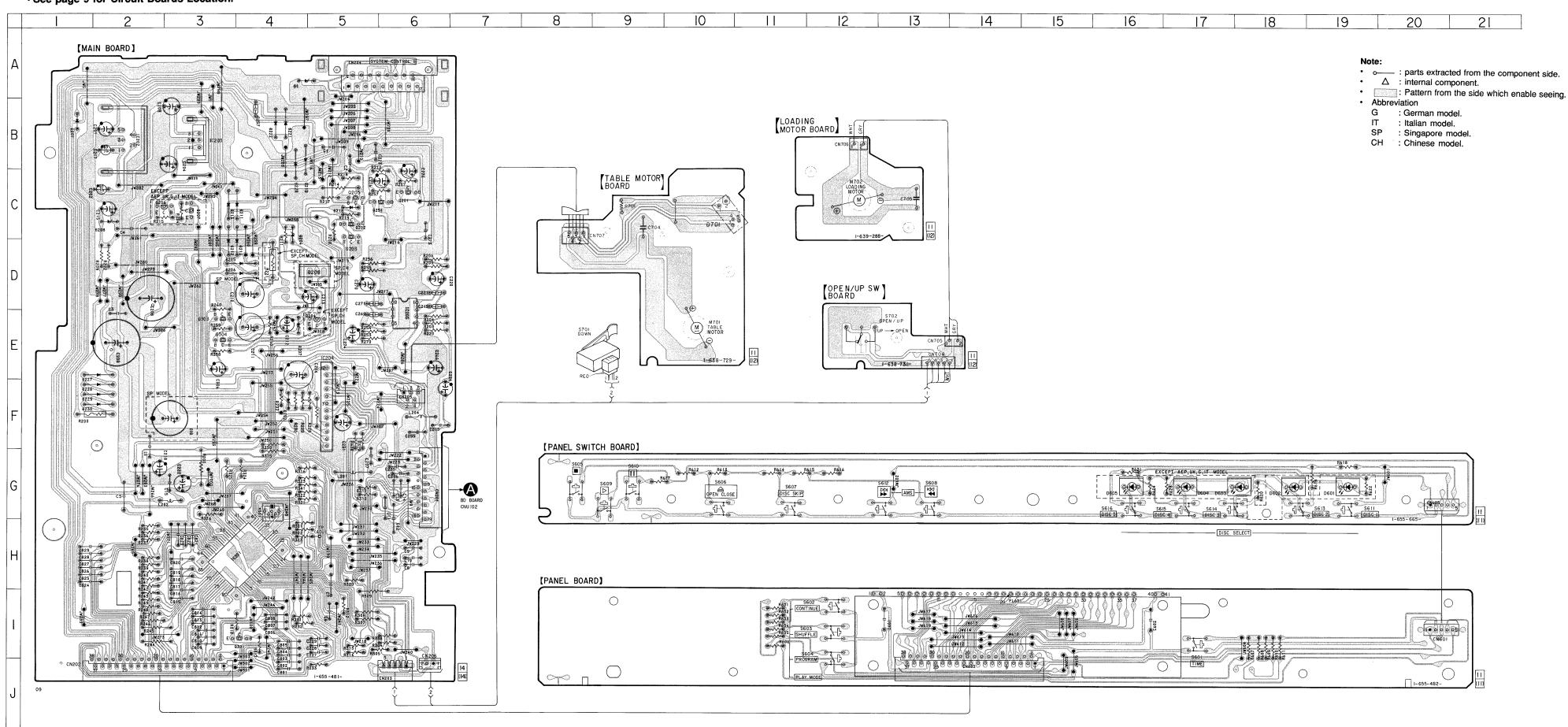


— 17 —

-- 18 --

4-6. PRINTED WIRING BOARD — MAIN SECTION — • See page 9 for Circuit Boards Location.

— 19 —



-20 -

Locatio	n	
Ref. No.	Location	
D1 D201 D202 D204 D205 D206 D207 D208 D210 D211 D212 D213 D218 D219 D220 D221 D222 D227 D228 D227 D228 D229 D230 D601 D602 D603 D604 D605 D701	A-4 B-1 F-4 D-3 D-3 E-4 C-2 D-4 C-4 D-3 C-5 C-5 C-5 C-4 B-4 F-1 F-1 F-1 F-1 G-18 G-18 G-17 G-10	
IC202 IC203 IC204 IC205 IC301	B-2 B-3 E-5 E-6 H-4	
Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q251 Q301 Q303 Q304	C-6 C-5 D-5 E-5 C-2 C-3 D-5 C-6 I-4 E-3 E-3	

4-5. IC PIN FUNCTION

• IC301 SYSTEM CONTROL, FL DRIVER (μ PD78044AGF)

Pin No.	Pin Name	I/O	Function
1	Т6	0	
2	T5	0	
3	T4	0	
4	T3	0	FL display grid output
5	T2	0	
6	T1	0	
7	ТО	0	
8	VDD	_	+5V power supply
9	CLK	0	Serial clock output to DSP (CXD-2507AQ)
10	DATA	0	Serial data output to DSP (CXD-2507AQ)
11		_	Fixed at GND
12	XLAT	0	Serial data latch pulse output to DSP (CXD-2507AQ)
13	PRGL	0	Serial data latch pulse output to D/F DAC (PCM-1710U)
14	SQCLK	0	Subcode Q data read clock output to DSP (CXD-2507AQ)
15		_	Not used (open)
16	SUBQ	I	Subcode Q data input from DSP (CXD-2507AQ)
17	RESET	I	System reset input ("L"=Active)
18	INSW	I	S701 (loading-in switch) input
19	OUTSW	I	S702 (loading-out switch) input
20	AVss	_	GND
21	LDOUT	0	Output for rotating M702 (loading motor) in the loading-out direction
22	LDIN	0	Output for rotating M702 (loading motor) in the loading-in direction
23	ADJ	I	Test mode input. "L"=Stops GFS check.
24	AFADJ	I	Test mode input. Fixed at "H" ("L":Test mode)
25	MODE	I	Not used (Fixed at "H")
26	KEY2	I	
27	KEY1	I	Key AD input
28	KEY0	I	
29	AVDD	_	+5V power supply
30	AVREF	_	J 10 · Pourse supply
31		_	Fixed at GND
32		-	Not used (open)
33	Vss		GND
34	X1	I	Clock (5MHz)
35	X2	0)
36	BDRESET	0	BD reset output
37	BDPOWER	0	Not used
38	LED ON	0	LED drive signal
39	SENS	I	SENS input from DSP (CXD-2507AQ)
40	AMUTE	0	Muting ON/OFF output

Pin No.	Pin Name	I/O	Function
41	FSW	0	Focus control signal
42	BSOUT	0	Audio bus output
43	TBL	0	Table motor control
44	SCOR	I	Subcode sync S0+S1 detection input
45	JOG1	I	JOG input (Fixed "L")
46	TBR	0	Table motor control
47	BSIN	I	Audio bus input
48	IC (VPP)	_	Connect to GND
49	JOG0	I	JOG input (Fixed "L")
50		_	Fixed "L"
51			Not used (open)
52	VDD	_	+5V power supply
53	SENS	-	Slit sensor of disc table input
54	UPSW	_	Disc table up det
55		_	Not used
56	S20	0	
57	S19	0	
58	S18	0	
59	S17	0	
60	S16	0	
61	S15	0	
62	S14	0	
63	S13	0	FL display segment output
64	S12	0	
65	S11	0	
66	S10	0	
67	S9	0	
68	S8	0	
69	S7	0	
70	S6	0]/
71	VLOAD	_	-30V power supply for driving FL display
72	S5	0	
73	S4	0	
74	S3	0	FL display segment output
75	S2	0	
76	S1	0]}
77	S0	0	
78	Т9	0	Di dialan aid mana
79	Т8	0	FL display grid output
80	T7	0	

SECTION 5 EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

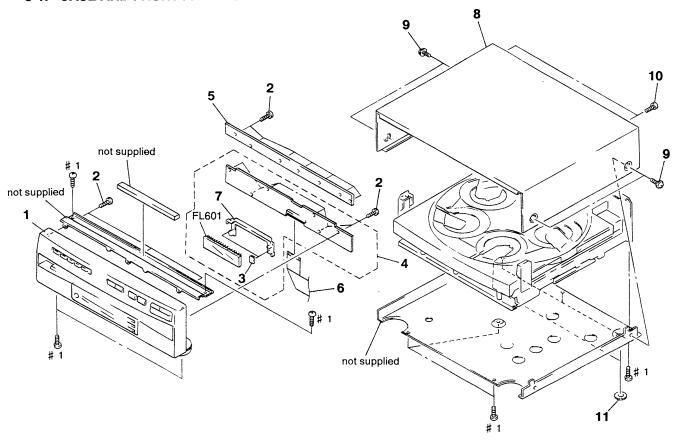
• Abbreviation

EA : Saudi Arabia model G : German model : Italian model ΙT : Mexican model MX SP : Singapore model : Malaysia model MY : Australian model AUS : Chinese model CH AR : Argentine model

The components identified by mark riangle or dotted line with mark riangle are critical for safety.

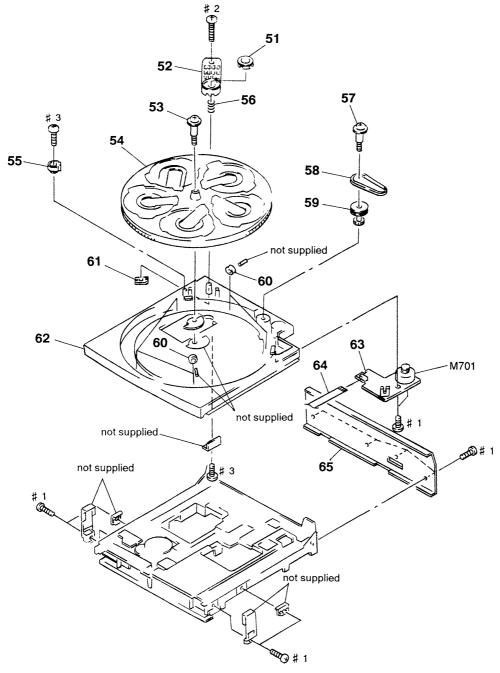
Replace only with part number specified.

5-1. CASE AND FRONT PANEL SECTION



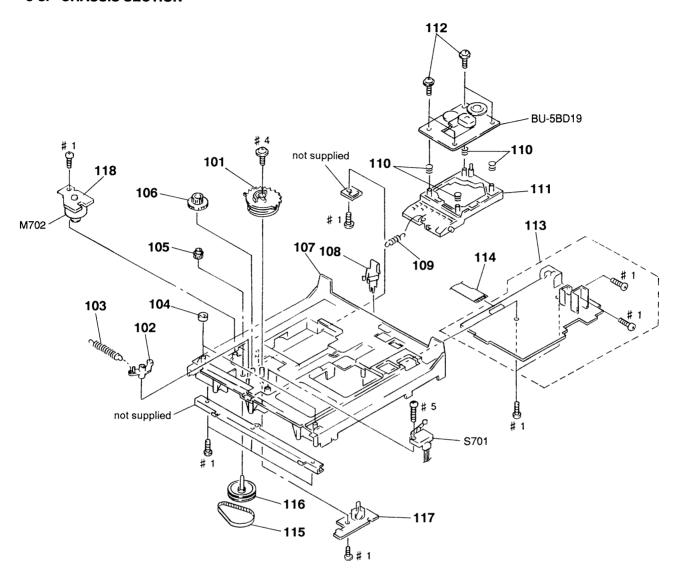
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1 1 2 * 3 * 4 * 5 6	X-4945-743-1 4-951-620-01 4-921-941-01 1-655-482-11 1-655-665-11		G, IT)	* 7 8 9 10 11 FL601	4-943-992-21 3-704-366-01 3-703-685-21 4-924-410-01	SCREW (CASE) (M3X8) SCREW (+BV 3X8)	

5-2. DISC TABLE SECTION



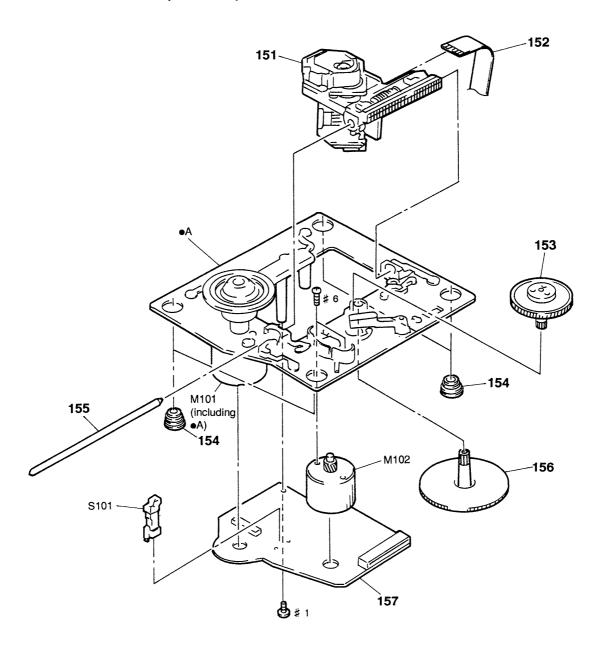
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 51 * 52 53 * 54 * 55	4-926-384-01	BRACKET (PRESS PULLEY) SCREW, STEP TABLE (B), DISK		* 61 62 63 64 * 65	4-955-787-81 1-638-729-11 1-590-849-11	BRACKET (ADJUSTMENT) TABLE, DISC TABLE MOTOR BOARD WIRE, FLAT TYPE (5 CORE) PANEL, BACK (AEP, UK, G, IT)	
56 57 58 59 60	4-926-395-01 4-923-597-01 4-926-399-01 4-934-380-01 X-4924-457-1	BELT PULLEY (R)		* 65 * 65 M701	4-969-794-21	PANEL, BACK (E, SP, AR, MY, CH) PANEL, BACK (EA, MX, AUS, PX) MOTOR ASSY, ROTARY (TABLE)	

5-3. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101 102 103 * 104 105	4-917-519-01 4-924-412-01 4-951-619-01	SPRING (B), TENSION		112 * 113 * 113 * 113	A-4673-489-A A-4673-491-A	SCREW (+PTPWH M2.6X6) MAIN BOARD, COMPLETE (AEP, UK, G, IT) MAIN BOARD, COMPLETE (E, EA, MX, MY, AUS, MAIN BOARD, COMPLETE (SP, CH)	
106 * 107 * 108 109 110 * 111	4-943-997-31 4-943-996-06 4-937-911-01 4-958-593-01	GEAR (LOADING C) CHASSIS SPRING, LEAF SPRING, TENSION SPRING (BU), COMPRESSION BRACKET (BU)		114 115 116 117 * 118 M702	4-944-490-01 X-4941-529-1 1-638-731-11 1-639-288-11	FLEXIBLE BOARD BELT (TIMING) PULLEY ASSY OPEN/UP SW BOARD LOADING MOTOR BOARD MOTOR ASSY, LOADING	

5-4. BASE UNIT SECTION (BU-5BD19)



The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number

specified.

 Ref. No.
 Part No.
 Description
 Remark
 Ref. No.
 Part No.
 Description
 Remark

 151
 8-848-387-01 OPTICAL PICK UP BLOCK KSS-213BA/S-N
 156
 4-917-564-01 GEAR (P), FLATNESS
 * 157
 A-4673-402-A BD BOARD, COMPLETE
 * 157
 A-4673-402-A BD BOARD, COMPLETE
 M101
 X-4917-523-4 BASE (OUTSERT) ASSY (SPINDLE)
 M102
 X-4917-504-1 MOTOR ASSY (SLED)
 SSI01
 1-572-085-11 SWITCH, LEAF (LIMIT)
 SWITCH, LEAF (LIMIT)



SECTION 6 ELECTRICAL PARTS LIST

NOTE:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
 All resistors are in ohms
 METAL: Metal-film resistor

METAL OXIDE: Metal Oxide-film resistor

F: nonflammable
• SEMICONDUCTORS

In each case, u: μ , for example: uA...: μ A..., uPA...: μ PA..., uPB...: μ PB...,

uPC...: μ PC..., uPD...: μ PD...

• CAPACITORS $uF: \mu F$

• COILS uH : μH

Abbreviation

EA: Saudi Arabia model : German model G IT : Italian model MX: Mexican model : Singapore model SP MY : Malaysia model AUS : Australian model СН : Chinese model AR : Argentine model

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
*	A-4673-402-A	BD BOARD, COMPL				C142	1-163-038-91	CERAMIC CHIP	0. 1uF		25V
C101 C102	1-126-607-11	< CAPACITOR > ELECT CHIP CERAMIC CHIP	47uF 0.001uF	20% 5%	4V 50V	C145 C146 C147 C148	1-135-201-11 1-163-275-11 1-163-275-11	TANTALUM CHIP TANTALUM CHIP CERAMIC CHIP CERAMIC CHIP	10uF 10uF 0. 001uF 0. 001uF	20% 20% 5% 5%	4V 4V 50V 50V
C103	1-164-346-11	CERAMIC CHIP	luF	D76	16V ·	C149		CERAMIC CHIP	1uF		16V
C105 C106		CERAMIC CHIP CERAMIC CHIP	0. 1uF 0. 0022uF	5%	25V 50V	C153 C154		TANTAL. CHIP CERAMIC CHIP	10uF 22PF	20% 5%	6. 3V 50V
C107 C108		CERAMIC CHIP	0. 0022uF 0. 01uF	5%	50V 50V			< CONNECTOR >			
C108 C109 C110 C111	1-164-232-11 1-163-989-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0. 01uF 0. 033uF 0. 1uF	10%	50V 50V 25V 25V			CONNECTOR, FFC/CONNECTOR, FFC/			
C112 C113		CERAMIC CHIP	0. 1uF 0. 0022uF	5%	25V 50V	10101	8-752-069-56	< IC > IC CXA1782BQ			
C114	1-164-005-11	CERAMIC CHIP	0. 47uF		25V	IC102	8-759-291-06	IC BA6397FP			
C115 C116	1-126-607-11 1-163-143-00	CERAMIC CHIP	47uF 0. 0012uF	20% 5%	4V 50V		8-752-372-94 8-759-185-29				
C117 C118	1-163-038-91	CERAMIC CHIP	0. 47uF 0. 1uF		25V 25V			< TRANSISTOR >			
C119 C120		CERAMIC CHIP TANTALUM CHIP	0. 1uF 10uF	20%	25V 4V	Q101 Q102	8-729-010-08 8-729-424-08		B710-R 2111		
C121	1-163-038-91	CERAMIC CHIP	0. 1uF		25V	Q103	8-729-421-22		2211		
C122 C123	1-163-038-91	CERAMIC CHIP	0. 01uF 0. 1uF		50V 25V			< RESISTOR >.			
C124 C125	1-126-607-11 1-164-232-11	CERAMIC CHIP	47uF 0. 01uF	20%	4V 50V	R102 R103	1-216-001-00 1-216-049-91		10 5% 1K 5%	1/10V 1/10V	
C126	1-163-038-91	CERAMIC CHIP	0. 1uF		25V	R104 R105	1-216-097-91		100K 5%	1/10	Y
C127 C128	1-164-695-11 1-163-135-00		0. 0022uF 560PF	5% 5%	50V 50V	R106	1-216-089-00 1-216-089-00		47K 5% 47K 5%	1/10) 1/10)	
C129	1-163-038-91		0. 1uF		25V	R107	1-216-089-00		47K 5%	1/10	
C130 C131	1-164-336-11 1-163-038-91		0. 33uF 0. 1uF		25V 25V	R108 R109	1-216-089-00 1-216-097-91		47K 5% 100K 5%	1/10V 1/10V	
						R112	1-216-077-00	METAL CHIP	15K 5%	1/10	1
C132 C133	1-163-037-11 1-163-145-00		0. 022uF 0. 0015uF	10% 5%	25V 50V	R113	1-216-077-00	METAL CHIP	15K 5%	1/10	1
C134	1-164-346-11		luF	0/0	16V	R114	1-216-101-00	METAL CHIP	150K 5%	1/10	7
C135	1-163-117-00		100PF	5%	50V		1-216-101-00		150K 5%	1/10	
C136	1-164-005-11	CERAMIC CHIP	0. 47uF		25V		1-216-061-00		3.3K 5%	1/10	
C137	1-164-232-11	CEDAMIC CUID	0. 01uF		EOV		1-216-093-00		68K 5%	1/10	
C137	1-164-232-11		0. 01ur 22PF	5%	50V 50V	R118	1-216-049-91	METAL GLAZE	1K 5%	1/10	1
C139	1-163-235-11		22FF	5%	50V 50V	R119	1-216-121-00	METAL CHIP	1M 5%	1/10	1
C141	1-163-038-91		0. 1uF	J/4	25V		1-216-089-00		47K 5%	1/10%	
					,				370	-, -011	

BD TABLE MOTOR LOADING MOTOR OPEN/UP SW MAIN

Ref. No.	Part No.	Description			Remar	k Ref	f. No.	Part No.	Description			Remark
R121 R122 R123	1-216-114-00 1-216-097-91 1-216-099-00	METAL GLAZE	510K 100K 120K	5%	1/10W 1/10W 1/10W			1-638-729-11	TABLE MOTOR BOA			
R124 R125	1-216-091-00 1-216-069-00		56K 6.8K	5% 5%	1/10W 1/10W	*		1-639-288-11	LOADING MOTOR I			
R126 R127 R128	1-216-063-00 1-216-089-00	METAL CHIP METAL CHIP	3. 9K 47K 220K	5% 5%	1/10W 1/10W 1/10W			1-638-731-11	OPEN/UP SW BOAR **********			
	1-216-105-91								< CAPACITOR >			
R129 R130 R131	1-216-049-91 1-216-079-00 1-216-079-00	METAL CHIP	1K 18K 18K	5% 5%	1/10W 1/10W 1/10W	- 1	C704 C705	1-162-302-11 1-162-302-11		0. 0022uF 0. 0022uF		16V 16V
R132 R133	1-216-061-00 1-216-061-00		3. 3K 3. 3K		1/10W 1/10W				< CONNECTOR >			
R134 R135 R136	1-216-065-00 1-216-065-00 1-216-073-00	METAL CHIP	4. 7K 4. 7K 10K		1/10W 1/10W 1/10W				PIN, CONNECTOR SOCKET, CONNECT		2P	
R137	1-216-065-00	METAL CHIP	4. 7K 1K		1/10W				< DIODE >			
R138 R139	1-216-049-91 1-216-033-00		220	5%	1/10W	1	D701	8-719-970-19	DIODE GP-1A52	21		
R140	1-216-033-00 1-216-081-00 1-216-061-00	METAL CHIP	22K	5%	1/10W				< RESISTOR >			
R141 R142	1-216-061-00	METAL CHIP	3. 3K 3. 3K	5%	1/10W 1/10W] 1	R701	1-249-416-11	CARBON	820 5%	1/4W	F
R143	1-216-121-00		1M	5% r _° ⁄	1/10W				< SWITCH >			
R144 R145	1-216-073-00 1-216-097-91	METAL GLAZE	10K 100K		1/10W 1/10W	,	S702	1-571-300-21	SWITCH, ROTARY	(OPEN/UP D	ET)	
R146 R147	1-216-097-91 1-216-049-91	METAL GLAZE	100K 1K	5%	1/10\\ 1/10\\	**	*****	******	******	*******	*****	*****
R148 R149 R150	1-216-049-91 1-216-049-91 1-216-037-00	METAL GLAZE	1K 1K 330	5% 5% 5%	1/10W 1/10W 1/10W	*		A-4673-489-A	MAIN BOARD, COM	•		•
R151 R152 R153	1-216-037-00 1-216-037-00 1-216-089-00	METAL CHIP METAL CHIP	330 330 47K	5% 5% 5%	1/10W 1/10W 1/10W	*		A-4673-491-A	MAIN BOARD, COM	(E, EA, M		S, AR, MY)
R154	1-216-065-00		4. 7K		1/10W			A-4672-662 A	MAIN BOARD, COM			****
R154 R156 R157	1-216-081-00 1-216-069-00	METAL CHIP	22K 6. 8K	5%	1/10W 1/10W	•		A-4013-002-A	*********		•	
	1-216-001-00		10		1/10W			7-685-646-79	SCREW +BVTP	3X8 TYPE2	N-S	
		< VARIABLE RESIS	STOR >						< CAPACITOR >			
RV102	1-241-396-11	RES, ADJ, METAL RES, ADJ, METAL RES, ADJ, METAL	${\tt GLAZE}$	22K			C1 C2 C3	1-164-159-11 1-164-159-11 1-164-159-11	CERAMIC CERAMIC	0. 1uF 0. 1uF 0. 1uF	!	50V 50V 50 V
		< SWITCH >					C4 C5	1-162-306-11 1-164-159-11		0. 01uF 0. 1uF		16V 50V
S101	1-572-085-11	SWITCH, LEAF (L	IMIT)			(C6 C7	1-164-159-11 1-161-494-00	CERAMIC	0. 1uF 0. 022uF		50V 25V
		< VIBRATOR >					C8 C9	1-162-290-31 1-162-290-31				50 V 50 V
X101	1-579-280-11	VIBRATOR, CRYSTA	AL (16.	9344Mi	Hz)	(C10	1-162-290-31				50 V
**************************************									CERAMIC	470PF	10%	50V

MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Descript	ion			Remark
C12	1-162-290-31	CERAMIC	470PF	10%	50V	C807	1-162-207-31	CERAMIC	22	PF	5%	50V
C13	1-162-290-31		470PF	10%	50V	C808	1-162-207-31		22		5%	50V
C14	1-162-282-31	CERAMIC	100PF	10%	50V	C809	1-162-207-31	CERAMIC	22		5%	50V
C15	1-164-159-11	CERAMIC	0. 1uF		50 V	C810	1-162-207-31	CERAMIC	22	PF	5%	50 V
C19	1-126-943-11		2200uF	20%	25V (SP)	C811	1-162-207-31		22		5%	50V
C201	1-124-907-11		10uF	20%	50V	C812	1-162-207-31		22		5%	50V
C202	1-124-465-00		0. 47uF	20%	50V	C813	1-162-207-31		22		5%	50V
C203	1-126-923-11		220uF	20%	10V	C814	1-162-207-31		22		5%	50V
C204	1-124-478-11	ELECT	100uF	20%	25V	C815	1-162-207-31	CERAMIC	22	PF	5%	50V
C205	1-162-215-31		47PF	5%	50V	C816	1-162-207-31		22		5%	50V
C206	1-164-159-11		0. 1uF		50V	C817	1-162-207-31		22		5%	50V
C207	1-164-159-11		0. 1uF		50V	C818	1-162-207-31		22		5%	50V
C208	1-128-548-11		4700uF	20%	25V	C819	1-162-207-31		22		5%	50V
C209	1-128-548-11	ELECT	4700uF	20%	25V	C820	1-162-207-31	CERAMIC	22	PF	5%	50V
C210	1-126-969-11		220uF	20%	50V	C821	1-162-207-31		22		5%	50V
C211	1-128-576-11		100uF	20%	63V	C822	1-162-207-31		22		5%	50V
C212	1-126-947-11		47uF	20%	35V	C823	1-162-207-31		22		5%	50V
C213	1-124-907-11		10uF	20%	50V	C824	1-162-207-31		22		5%	50V
C214	1-126-941-11	ELECT	470uF	20%	25V	C825	1-162-207-31	CERAMIC	22	PF	5%	50V
C215	1-124-443-00	ELECT	100uF	20%	10V	C826	1-162-207-31	CERAMIC	22	PF	5%	50V
C217	1-124-463-00	ELECT	0. 1uF	20%	50V	C827	1-162-207-31	CERAMIC	22	PF	5%	50V
C218	1-124-916-11	ELECT	22uF	20%	63V	C828	1-162-207-31	CERAMIC	22	PF	5%	50V
C219	1-130-479-00	MYLAR	0.0047uF	5%	50V	C829	1-162-207-31	CERAMIC	22	PF	5%	50V
C220	1-104-664-11	ELECT	47uF	20%	16V			4 COMMING	eron v			
C221	1-130-472-00	MVI AD	0. 0012uF	5%	50V			< CONNEC	IOR >			
C222	1-126-925-11		470uF	20%	10V	↓ CN201	1-568-862-11	COCKET	CUMPLETUD	10D		
C223	1-162-302-11		0. 0022uF	30%	16V		1-691-902-21					
C223	1-124-907-11		10uF	20%	50V		1-568-943-11			C 311		
C225	1-164-159-11		0. 1uF	2070	50V		1-764-017-11			(PC ROAE	אר (מצ	
							1-568-824-11				10)111	
C226	1-124-903-11		luF	20%	50V							
C227	1-162-294-31		0.001uF	10%	50V			< DIODE	>			
C228	1-162-294-31		0.001uF	10%	50V							
C229	1-162-294-31		0.001uF	10%	50V	D1	8-719-000-75		UZL-7L1			
C231	1-126-925-11	ELECT	470uF	20%	10V	D201	8-719-987-63		1N4148M			
		0777 LLC	1000	=0/		D202	8-719-010-42		UZ-5. 6BSB			
C255	1-162-215-31		47PF	5% 5%	50V	D204	8-719-000-75		UZL-7L1	OD.		
C257	1-136-177-00 1-124-463-00		luF	5% 20%	50V	D205	8-719-024-99	NIODE	11ES2-NTA	7R		
			0. 1uF	20%	50V	Dave	0 710 004 00	DIODE	11000 3774	on.		
C269	1-130-479-00		0. 0047uF	5% 20%	50V	D206	8-719-024-99		11ES2-NTA	7R		
C270	1-104-664-11	LLEC 1	47uF	20%	16V	D207	8-719-013-67		UZ-30BSD			
C271	1-130-472-00	MVI AD	0. 0012uF	592	FOV	D208 D210	8-719-010-33		UZ-4, 7BSB	OD		
C271	1-162-302-11		0. 0012uF	5% 30%	50V 16V	D210 D211	8-719-024-99 8-719-024-99		11ES2-NTA 11ES2-NTA			
C274	1-102-302-11		10uF			D211	0-119-024-99	DIODE	TICOZ-NIA	ZB		
C274 C276	1-124-907-11		luF	20% 20%	50V 50V	D212	8-719-024-99	מטטוט	11EC9 NT4	9D		
C306	1-124-903-11		luF	20% 20%		D212 D213			11ES2-NTA			
C300	1-174-209-11	EPEC1	ıur	20/0	50V	D213 D218	8-719-024-99 8-719-987-63		11ES2-NTA 1N4148M	۵Ď		
C801	1-162-207-31	CERAMIC	22PF	5%	50V	D219	8-719-024-99		11ES2-NTA	2B		
C802	1-162-207-31		22PF	5%	50V	D220	8-719-024-99		11ES2-NTA			
C803	1-162-207-31		22PF	5%	50V		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
C804	1-162-207-31		22PF	5 %	50V	D221	8-719-024-99	DIODE	11ES2-NTA	2B		
C805	1-162-207-31		22PF	5%	50V	D222	8-719-024-99		11ES2-NTA			
						D227	8-719-024-99		11ES2-NTA			
C806	1-162-207-31	CERAMIC	22PF	5%	50V	D228	8-719-024-99		11ES2-NTA			



Ref. No.	Part No.	Descripti	<u>on</u>			Remark	Ref. No.	Part No.	Descripti	.on				Remark
D229	8-719-024-99	DIODE 1	1ES2-N	TA2B			R219	1-249-429-11	CARBON	10K	5%	1/4W		
							R220	1-249-441-11		100K		1/4W		
D230	8-719-024-99	DIODE 1	1ES2-N	ITA2B			<u>^</u> R221	1-212-881-11	FUSIBLE	100	5%	1/4W		
		< IC >										(EXCEPT	SP, CH)
		\ 10 <i>></i>					R222	1-249-423-11	CARBON	3. 3K	5%	1/4W	F	
IC202	8-759-820-84	IC L78M	IR05				R228	1-247-834-11		1. 3K		1/4W	•	
	8-759-071-48						R229	1-249-415-11		680	5%	1/4W	F	
	8-759-172-31						R230	1-249-424-11		3.9K		1/4₩		
	8-759-634-51				070		R231	1-249-423-11	CARBON	3. 3K	5%	1/4W	F	
10301	8-759-332-67	IC upp7	8044AG	F-101	3B9		Dana	1 040 400 11	CADDOM	9 917	Ε0/	1 / 477	В	
		< COIL >					R232 R233	1-249-423-11 1-249-423-11		3. 3K 3. 3K		1/4W 1/4W		
		(COID)					R234	1-249-429-11		3. 3K	5%	1/4W	Г	
L201	1-410-322-11	INDUCTOR		3. 3t	ıH			1 510 150 11	CHILDON	1011	070	(EXCEPT	AEP, UF	(, G, IT)
L202	1-410-517-11			47uł	Ī		R235	1-249-441-11	CARBON	100K	5%	1/4₩	, , ,	-, -,,
L204	1-412-473-21	INDUCTOR		0uH			R236	1-249-441-11	CARBON	100K	5%	1/4W		
		/ TDANCIC	TAD \				D007	1 040 441 11	CADDON	10017	50 /	1 / 4777		
		< TRANSIS	IUK >				R237 R238	1-249-441-11 1-249-441-11		100K 100K		1/4W 1/4W		
Q201	8-729-119-78	TRANSISTO	R 2S	C4035	P-51		R239	1-249-441-11		100K		1/4W		
Q202	8-729-422-57	TRANSISTO		4111			R240	1-249-441-11		100K		1/4W		
Q203	8-729-900-80			C114E			R241	1-249-441-11	CARBON	100K		1/4₩		
Q204	8-729-030-19				(SP, CI									
Q205	8-729-119-78	TRANSISTO	R 2S	C4035	SP-51 (E	EXCEPT SP, CH)	R242	1-249-441-11		100K		1/4W		
Q206	8-729-140-04	TRANSISTO	R 2S	B1116	A-T.		R243 R244	1-249-441-11 1-249-441-11		100K 100K	5% 5%	1/4W 1/4W		
4200	0 120 110 01	111111101010	. 20	DIII		AEP, UK, G, IT)	R245	1-249-441-11		100K	5%	1/4W		
Q207	8-729-900-80	TRANSISTO	R DT	C114E		,, .,,	R246	1-249-441-11		100K		1/4W		
						AEP, UK, G, IT)								
Q208	8-729-140-04					CEPT SP, CH)	R247	1-249-441-11		100K		1/4W		
Q251 Q301	8-729-119-78			C403S			R248	1-249-441-11			5%	1/4W		
6201	8-729-900-80	TRANSISIO	וע או	C114E	ఎ		R249 R250	1-249-441-11 1-249-417-11		100K 1K	5% 5%	1/4W 1/4W	D	
Q303	8-729-900-63	TRANSISTO	R DT	A124E	S		R253	1-249-419-11		1. 5K		1/4W		
Q304	8-729-119-78			C403S					CILLDON	1. 0.1	070	2/ 11	•	
							R254	1-249-419-11		1.5K	5%	1/4W	F	
		< RESISTO	R >				R255	1-249-441-11		100K		1/4W		
♠ ₽200	1210. 120. 11	DIICIDI D	0 60	1 00/	1 / AW		R256	1-249-417-11		1K	5%	1/4W	F	
<u>^</u> R200 R201	1-219-139-11 1-249-417-11		0.68 1K	10% 5%	1/4W 1/4W	T .	R257 R258	1-249-429-11 1-249-441-11		10K 100K	5%	1/4W		
R202	1-249-423-11		3. 3K		1/4W		11230	1-245-441-11	CARDON	1001	3%	1/4₩		
R203	1-249-419-11		1. 5K		1/4W		R259	1-249-437-11	CARBON	47K	5%	1/4W		
R204	1-249-419-11	CARBON	1.5K	5%	1/4₩	F	R260	1-249-437-11	CARBON	47K	5%	1/4W		
D005		0.1mmo.v					R270	1-249-441-11		100K	5%	1/4W		
R205	1-249-441-11		100K		1/4W	Б	R301	1-249-429-11		10K	5%	1/4₩		
R206 R207	1-249-417-11 1-249-429-11		1K 10K	5% 5%	1/4W 1/4W	r	R302	1-249-429-11	CARBON	10K	5%	1/4₩		
R208	1-249-441-11		100K		1/4W		R303	1-249-429-11	CARRON	10K	5%	1/4W		
R209	1-249-423-11		3. 3K		1/4W	F	R304	1-249-429-11		10K	5%	1/4W		
							R305	1-249-429-11		10K	5%	1/4W		
R210	1-249-425-11		4. 7K		1/4₩	F	R306	1-249-417-11		1K	5%	1/4W		
R211	1-249-431-11		15K	5%	1/4W		R307	1-249-417-11	CARBON	1K	5%	1/4W	F	
R212 R214	1-249-441-11 1-249-393-11		100K 10	5% 5%	1/4W 1/4W	F I	R308	1-247-807-31	CADRON	100	E0/	1 /AW		
R215	1-249-429-11		10K	5%	1/4W	•	R309	1-249-417-11		100 1K	5% 5%	1/4W 1/4W	F	
						AEP, UK, G, IT)	R310	1-247-807-31		100	5%	1/4W	•	
wa							R311	1-247-807-31	CARBON	100	5%	1/4W		
R217	1-249-429-11		10K	5%	1/4W	77	R312	1-247-807-31	CARBON	100	5%	1/4W		
R218	1-249-425-11	CARBUN	4. 7K	5%	1/4W	r								

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.

MAIN PANEL PANEL SWITCH

## 1-887-887-887-887-887-887-887-887-887-88	Ref. No.	Part No.	Descripti	<u>on</u>				Remark	Ref. No.	Part No.	Description	<u>on</u>				Remark
R315 1-247-807-31 CARBON 100 5% 1/4W F R317 1-249-41-11 CARBON 100K 5% 1/4W F R318 1-249-441-11 CARBON 100K 5% 1/4W F R318 1-249-441-11 CARBON 100K 5% 1/4W F R319 1-247-807-31 CARBON 100 5% 1/4W F R320 1-244-807-31 CARBON 100 5% 1/4W F R321 1-244-807-31 CARBON 100 5% 1/4W F R322 1-247-807-31 CARBON 100 5% 1/4W F R323 1-249-417-11 CARBON 100 5% 1/4W F R324 1-249-417-11 CARBON 1K 5% 1/4W F R325 1-249-417-11 CARBON 1K 5% 1/4W F R326 1-249-417-11 CARBON 1K 5% 1/4W F R327 1-249-417-11 CARBON 1K 5% 1/4W F R328 1-249-417-11 CARBON 100 5% 1/4W F R328 1-249-417-11 CARBON 1D0 5% 1/4W F R329 1-249-417-11 CARBON 1D0 5% 1/4W F R321 1-249-417-11 CARBON 1D0 5% 1/4W F R328 1-249-417-11 CARBON 1D0 5% 1/4W F R329 1-249-417-11 CARBON 1D0 5% 1/4W F R321 1-249-417-11 CARBON 1D0 5% 1/4W F R321 1-249-417-11 CARBON 1D0 5% 1/4W F R322 1-249-417-11 CARBON 1D0 5% 1/4W F R338 1-249-417-11 CARBON 1D0 5% 1/4W F R338 1-249-417-11 CARBON 1D0 5% 1/4W F R339 1-249-417-11 CARBON 1D0 5% 1/4W F R330 1-571-807-31 CARBON 1D0 5% 1/4W F R331 1-249-417-11 CARBON 1D0 5% 1/4W F R332 1-249-417-11 CARBON 1D0 5% 1/4W F R338 1-249-417-11 CARBON 1D0 5% 1/4W F R339 1-249-417-11 CARBON 1D0 5% 1/4W F R331 1-249-417-11 CARBON 1D0 5% 1/4W F R332 1-249-417-11 CARBON 1D0 5% 1/4W F R331 1-249-417-11 C	R314								1							
### ### ### ### ### ### ### ### ### ##														-,	_	
## 1-655-482-11 PANEL SHITCH BORD *** 4-955-792-21 HOLDER** (SM). FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW							F									
### ### ### ### ### ### ### ### ### ##	иотт	1-249-441-11	CARBON	100K	576	1/4#										
R810 1-247-807-31 CABRON 100 5% 1/4# F	R318	1-249-441-11	CARBON	100K	5%	1 / A W										
R320									i							
R612 1-247-807-31 CARBON 100 5% 1/4F		1-247-807-31	CARBON		5%						011112011	1. 011	0,0	1/ 111		
R323							F		•		-	470	5%	1/4W	F	
R323 1-247-807-31 CARBON 100 5% 1/4₩ F R324 1-249-417-11 CARBON 1 1	R322	1-247-807-31	CARBON	100	5%	1/4W			1							
R325 1-249-417-11 CARBON	R323	1-247-807-31	CARRON	100	5%	1 / AW										
R325 1-249-417-11 CARBON 1K SK 1/4W F R326 1-249-417-11 CARBON 1K SK 1/4W F R328 1-249-417-11 CARBON 1ZK SK 1/4W F R328 1-249-417-11 CARBON 1ZK SK 1/4W F R328 1-249-412-11 CARBON 1ZK SK 1/4W F R329 1-249-413-11 CARBON 1ZK SK 1/4W F R610 1-249-439-11 CARBON 1ZK SK 1/4W F R611 1-249-430-11 CARBON 1ZK SK 1/4W F R612 1-249-430-11 CARBON 1ZK SK 1/4W F R612 1-249-430-11 CARBON 1ZK SK 1/4W F R613 1-249-430-11 CARBON 1ZK SK 1/4W F R614 1-249-403-11 CARBON 1ZK SK 1/4W F R615 1-249-430-11 CARBON 2ZK SK 1/4W F R616 1-249-425-11 CARBON 2XK SK 1/4W F R617 1-249-430-11 CARBON 1ZK SK 1/4W F R619 1-249-430-11 CARBON 1ZK SK 1/4W F R619 1-249-430-11 CARBON 1ZK SK 1/4W F R610 1-249-430-11 CARBON 1ZK SK 1/4W F R611 1-249-430-11 CARBON 1ZK SK 1/4W F R612 1-249-401-11 CARBON 1ZK SK 1/4W F R613 1-249-430-11 CARBON 1ZK SK 1/4W F R614 1-249-403-11 CARBON 1ZK SK 1/4W F R615 1-249-430-11 CARBON 1ZK SK 1/4W F R616 1-249-430-11 CARBON 1ZK SK 1/4W F R617 1-249-430-11 CARBON 1ZK SK 1/4W F R617 1-249-430-11 CARBON 1ZK SK 1/4W F R618 1-249-430-11 CARBON 1ZK SK 1/4W F R619 1-249-430-11 CARBON 1ZK S							F		i .							
R326									KOIS	1 245-421-11	CANDON	2. 2N	Ð%	1/4₩	r	
R338 1-249-429-11 CARBON 10K 5% 1/4W R617 1-249-430-11 CARBON 2	R326								R616	1-249-425-11	CARBON	4. 7K	5%	1/4W	F	
R341 1-247-807-31 CARBON 100 5% 1/4W R620 1-249-430-11 CARBON 4.7% 5% 1/4W R620 1-249-430-11 CARBON 12% 5% 1/4W F R620 1-249-430-11 CARBON 12% 5% 1/4W F R620 1-249-430-11 CARBON 12% 5% 1/4W F R620 1-249-430-11 CARBON 47 5% 1/4W F R620 1-249-401-11 CARBON 47 5% 1/4W F R620 1-249-401-	R338	1-249-429-11	CARBON	10K	5%	1/4W			R617						•	
X301 1-579-233-11 VIBRATOR CERAMIC (5MHz) R621 1-249-430-11 CARBON 12K 5% 1/4W R622 1-249-401-11 CARBON 12K 5% 1/4W F R621 1-249-401-11 CARBON 12K 5% 1/4W F R622 1-249-401-11 CARBON 47 5% 1/4W F R623 1-249-401-11 CARBON 47 5% 1/4W F R624 1-249-401-11 CARBON 47 5% 1/4W F R624 1-249-401-11 CARBON 47 5% 1/4W F R624 1-249-401-11 CARBON 47 5% 1/4W F R625 1-249-401-11 CARBON 47 5% 1/4W F R626 1-249-401-11 CARBON 47 5% 1/4W F R626 1-249-401-11 CARBON 47 5% 1/4W F R627 1-249-401-11 CARBON 47 5% 1/4W F R628 1-249-401-11 CARBON 47 5% 1/4W F R629 1-249-401-11 CARBON 12K 5%	2011	1 045 005 04										2. 2K	5%	1/4W	F	
X301 1-579-233-11 VIBRATOR CERAMIC (SMHz) R621 1-249-401-11 CARBON 12K 5% 1/4W F (EXCEPT AEP, UK, G, IT)	R341	1-247-807-31	CARBON	100	5%	1/4W			1						F	
X301			< VIRRATO	P \					R620	1-249-430-11	CARBON	12K	5%	1/4W		
R622 1-249-401-11 CARBON 47 5% 1/4W F			\ \IDRATO	ι /					R621	1-249-430-11	CARRON	1 9 V	E9/	1 / / 107		
**************************************	X301	1-579-233-11	VIBRATOR,	CERAM	IC (5M	Hz)									F	
*************************************					,	•					Cimbon	-11	0/0			. G. IT)
* 1-655-665-11 PANEL BOARD	******	*******	*******	*****	*****	*****	*****	*****	R623	1-249-401-11	CARBON	47	5%	1/4₩	F	
*********** * 1-655-665-11 PANEL SWITCH BOARD ****************** * 4-955-792-21 HOLDER (5M), FL TUBE CAPACITOR > CAP	*	1-655-482-11	PANEL BOAI	RD					R624	1-249-408-11	CARRON	180	592			, G, IT)
* 1-655-665-11 PANEL SWITCH BOARD **************** * 4-955-792-21 HOLDER (5M), FL TUBE CAPACITOR > *************** * CAPACITOR > ************** * CAPACITOR > ************** * CAPACITOR > ************** * CAPACITOR > *************** * CONNECTOR > ************** * CONNECTOR > **************** * CONNECTOR > ****************** * CONNECTOR > ***********************************			******	**						1 210 100 11	Childon	100	J 70			. G. IT)
************* * 4-955-792-21 HOLDER (5M), FL TUBE														(, 011,	u, 11)
* 4-955-792-21 HOLDER (5M), FL TUBE	*	1-655-665-11									< SWITCH >					
* 4-955-792-21 HOLDER (5M), FL TUBE			******	*****	***				0001	1 551 500 11						
CAPACITOR S603 1-571-760-11 SWITCH, KEY BOARD (SHUFFLE) S604 1-571-760-11 SWITCH, KEY BOARD (PROGRAM) S605 1-571-760-11 SWITCH, KEY BOARD (PROGRAM) S607 1-571-760-11 SWITCH, KEY	*	4-955-792-21	HOLDER (58	M) FI	THE											
CAPACITOR S604 1-571-760-11 SWITCH, KEY BOARD (FROGRAM) S605 1-571-760-11 SWITCH, KEY BOARD (•	1 000 102 21	HODDEN (SI	11/, 11/	TODE											
C601 1-164-159-11 CERAMIC 0.1 uF 50V 50V 500 1-511-760-11 SWITCH, KEY BOARD (○ OPEN/CLOSE) 5007 1-511-760-11 SWITCH, KEY BOARD (○ OPEN/CLOSE) 5007 1-571-760-11 SWITCH, KEY BOARD (○ OPEN/CLOSE) 5007 1-571-760-11 SWITCH, KEY BOARD (○ OPEN/CLOSE) 5007 1-571-760-11 SWITCH, KEY BOARD (○ OPEN/CLOSE) 5007 1-571-760-11 SWITCH, KEY BOARD (○ OPEN/CLOSE) 5007 1-571-760-11 SWITCH, KEY BOARD (○ OPEN/CLOSE) 5007 1-571-760-11 SWITCH, KEY BOARD (○ OPEN/CLOSE) 5007 1-571-760-11 SWITCH, KEY BOARD (○ OPEN/CLOSE) 5007 1-571-760-11 SWITCH, KEY BOARD (○ OPEN/CLOSE) 5007 1-571-760-11 SWITCH, KEY BOARD (○ OPEN/CLOSE) 5007 1-571-760-11 SWITCH, KEY BOARD (○ OPEN/CLOSE) 5007 1-571-760-11 SWITCH, KEY BOARD (○ OPEN/CLOSE) 5009 1-571-760-11 SWITCH, KEY BOARD (○ OPEN/CLOSE)			< CAPACITO	OR >												
C601 1-164-159-11 CERAMIC 0.1 uF 50V C602 1-164-159-11 CERAMIC 0.1 uF 50V S606 1-571-760-11 SWITCH, KEY BOARD (○ PEN/CLOSE) S607 1-571-760-11 SWITCH, KEY BOARD (○ PEN/CLOSE) S607 1-571-760-11 SWITCH, KEY BOARD (○ PEN/CLOSE) S608 1-571-760-11 SWITCH, KEY BOARD (○ PEN/CLOSE) S609 1-571-760-11 SWITCH, KEY BOARD (○ PEN/CLOSE) S619 1-571-760-11 SWITCH, KEY BOARD (○ PEN/CLOSE) S619 1-571-760-11 SWITCH, KEY BOARD (○ PEN/CLOSE) S619 1-571-760-11 SWITCH, KEY BOARD (○ PEN/CLOSE) S619 1-571-760-11 SWITCH, KEY B																
CONNECTOR CON																
* CN202 1-691-902-21 CONNECTOR, FFC/FPC 37P	C602	1-164-159-11	CERAMIC		0. luF			50V		1-571-760-11	SWITCH, KE	y boari) (≦	≧ OPEN/CI	JOSE)	
* CN202 1-691-902-21 CONNECTOR, FFC/FPC 37P C DIODE > C DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT)			< CONNECTO	ND >						1-571-760-11	SWITCH, KE	Y BOARI) (D	ISC SKIP)	
* CN202 1-691-902-21 CONNECTOR, FFC/FPC 37P C DIODE > C DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT) DIODE SEL5420S-T			COMMECT	JIL /						1-5/1-/60-11	SWITCH, KE	A BOYEL) (K	(√ 44)	t .	
Color Col	* CN202	1-691-902-21	CONNECTOR,	FFC/F	PC 371)										
D601 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT) D602 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT) D603 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT) D604 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT) D605 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT) D605 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT) D605 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT)			< D10DD >													
D601 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT) D602 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT) D603 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT) D604 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT) D605 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT) D605 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT)			< DIODE >							1-571-760-11	SWITCH, KE	Y BOARD	(D	ISC 1)		
D602 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT) D603 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT) D604 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT) D605 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT)	D601	8-719-032-87	DIODE SE	EL5420S	S-TP (1	EXCEPT	AEP III	K G IT)		1-5/1-/60-11	SWITCH, KE	Y BOARD) (D			
D603 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT) D604 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT) D605 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT)	D602									1-571-760-11	SWITCH, KE	Y BOARD) (D	ISC 2)		
D604 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT) D605 8-719-032-87 DIODE SEL5420S-TP (EXCEPT AEP, UK, G, IT)			DIODE SE	EL5420S	5-TP (I	EXCEPT	AEP, UI	K, G, IT)		1-571-760-11	SWITCH, KE	Y BOARD	(D	ISC 4)		
FL601 1-519-721-31 INDICATOR TUBE, FLUORESCENT																
FL601 1-519-721-31 INDICATOR TUBE, FLUORESCENT < RESISTOR > R601 1-249-413-11 CARBON 470 5% 1/4W F R602 1-249-415-11 CARBON 680 5% 1/4W F	D605	8-719-032-87	DIODE SE	£L5420S	S-TP (I	EXCEPT	AEP, U	K, G, IT)	S616	1-571-760-11	SWITCH, KE	Y BOARD	(D	ISC 5)		
<pre></pre>			< FLUORESC	CENT IN	DIATOF	? >			******	******	*******	*****	***	******	*****	:****
R601 1-249-413-11 CARBON 470 5% 1/4W F R602 1-249-415-11 CARBON 680 5% 1/4W F	FL601	1-519-721-31	INDICATOR	TUBE,	FLUORE	SCENT										
R602 1-249-415-11 CARBON 680 5% 1/4W F			< RESISTOR	? >												
R602 1-249-415-11 CARBON 680 5% 1/4W F	2001	1 040 440 44	0.1					-								
2, 2, 1, 2																
1000 2 210 11. 11 OMBON 11. 3/0 1/4¶ F																
		111 11		***	0,0	1/41	1	1								

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS *********	
* 51 64 114	1-452-538-1 1-590-849-1 1-654-751-1	1 WIRE (FLAT TYPE) (37 CORE) 1 MAGNET 1 WIRE, FLAT TYPE (5 CORE) 1 FLEXIBLE BOARD 1 OPTICAL PICK UP BLOCK KSS-213BA/S	5-N
FL601 M101	1-519-721-3 X-4917-523-	1 WIRE (FLAT TYPE) (16 CORE) 1 INDICATOR TUBE, FLUORESCENT 4 BASE (OUTSERT) ASSY (SPINDLE) 1 MOTOR ASSY (SLED) A MOTOR ASSY, ROTARY (TABLE)	
M702 S101 S701	A-4353-974-1 1-572-085-1 1-572-713-1	A MOTOR ASSY, LOADING 1 SWITCH, LEAF (LIMIT) 1 SWITCH, PUSH (WITH CONNECTOR)(DOW	'N DET)
*****	******	************	*****
		ES & PACKING MATERIALS *******************	
*	4-973-916-0	1 PLATE (TRANSPORT), LOCK 1 CUSHION (FRONT) 1 CUSHION (REAR)	
*****	******	************	*****

#5	7-682-554-04 7-685-647-79 7-682-961-03 7-685-136-19	9 SCREW +BVTP 3X8 TYPE2 N-S 4 SCREW +B 3X25 9 SCREW +BVTP 3X10 TYPE2 N-S 1 SCREW +PSW 4X8 9 SCREW +P 2.6X12 TYPE2 NON-SLIT	
#6	1-041-255-1t) >\nD# +r 233	

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

SS-LB500/LB650V

SERVICE MANUAL



E Model Australian Model SS-LB500/LB650V

> PX Model SS-I B500

Chinese Model SS-LB650V

SS-LB500 is the speaker system in LBT-N550/N550K/N550P.

SS-LB650V is the speaker system in SS-LB650CR and LBT-N550K.

Photo: L-CH

SPECIFICATIONS

SS-LB500

Type

3-way speaker system

Speaker unit

Woofer: 22 cm, cone type Tweeter: 6 cm, cone type Super tweeter: 2 cm, cone type

6 ohms

Rated impedance

Bass reflex Enclosure

Dimension

280 × 481 × 271 mm (w/h/d)

Grill

Remove

Typeinput terminal

Weight

Terminal board Approx. 6.2 kg/pc SS-LB650V

Type

3-way speaker system

Magnetically shielded type

Speaker unit

Woofer: 22 cm, cone type Tweeter: 6 cm, cone type

Super tweeter: 2 cm, cone type

Rated impedance

Enclosure

6 ohms

Bass reflex

Dimension

280 × 481 × 271 mm (w/h/d)

Grill

Remove

Typeinput terminal

Terminal board

Weight

Approx. 6.4 kg/pc

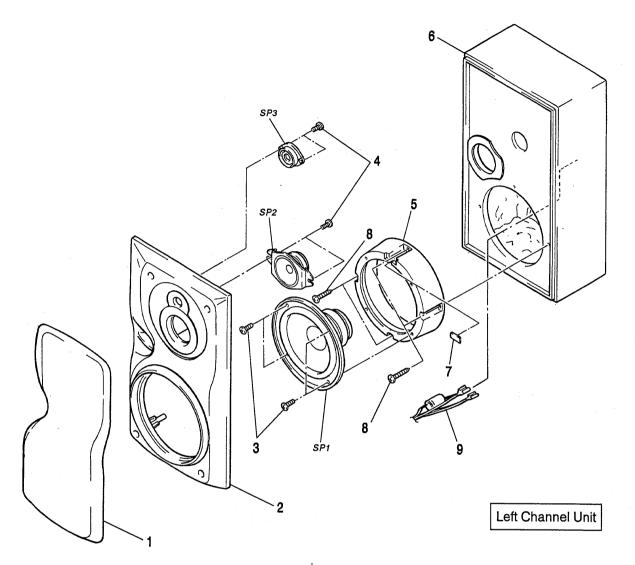
Design and specifications subject to change without notice.



EXPLODED VIEW AND PARTS LIST

NOTE:

- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1 1 2 2 2	X-4945-664-1 X-4945-661-1 X-4945-662-1	FRAME (L) ASSY, GRILLE FRAME (R) ASSY, GRILLE PANEL (L) ASSY, FRONT (LB500) PANEL (R) ASSY, FRONT (LB500) PANEL (L) ASSY, FRONT (LB650V)		SP1 SP1 SP2 SP3 ******	1-504-945-11 1-504-677-11 1-504-805-11	SPEAKER (20cm) (LB500) SPEAKER (20cm) (LB650V) SPEAKER (6cm) SPEAKER (2cm) ************************************	*****
2 3 4 5 * 6 * 6 * 7 8 9	7-685-661-79 7-685-659-79 4-970-450-01 A-4361-379-A A-4361-380-A 9-911-840-XX 4-936-542-01	CABINET (L) ASSY, SPEAKER CABINET (R) ASSY, SPEAKER		* * * *	4-975-728-01 4-975-729-01	PACKING & MATERIALS *************** CUSHION INDIVIDUAL CARTON (LB500:AUS, INDIVIDUAL CARTON (LB500:E) INDIVIDUAL CARTON (LB500:MX) INDIVIDUAL CARTON (LB650V)	, PX)